

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549
FORM 10-K

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended **March 31, 2023**

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

FOR THE TRANSITION PERIOD FROM _____ TO _____

Commission File Number **001-39587**

23ANDME HOLDING CO.

(Exact name of Registrant as specified in its Charter)

Delaware

(State or other jurisdiction of incorporation or organization)

**349 Oyster Point Boulevard
South San Francisco, California**

(Address of principal executive offices)

87-1240344

(I.R.S. Employer Identification No.)

94080

(Zip Code)

(650) 938-6300

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

<u>Title of each class</u>	<u>Trading Symbol(s)</u>	<u>Name of each exchange on which registered</u>
Class A common stock, \$0.0001 par value per share	ME	The Nasdaq Global Select Market

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the Registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the Registrant is not required to file reports pursuant to Section 13 or 15(d) of the Act. Yes No

Indicate by check mark whether the Registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the Registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the Registrant was required to submit such files). Yes No

Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	<input checked="" type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/>	Smaller reporting company	<input type="checkbox"/>
Emerging growth company	<input type="checkbox"/>		

If an emerging growth company, indicate by check mark if the Registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the Registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements.

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to §240.10D-1(b).

Indicate by check mark whether the Registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

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The aggregate market value of voting stock held by non-affiliates of the Registrant as of September 30, 2022, the last business day of the Registrant's most recently completed second fiscal quarter, was approximately \$0.75 billion (based on the last reported sale price of the Registrant's Class A common stock of \$2.86 per share on September 30, 2022 on the Nasdaq Global Select Market), excluding only shares of Class A common stock held by executive officers and directors of the Registrant as of such date. The Registrant has no non-voting stock outstanding.

As of May 18, 2023, there were 293,075,517 shares of Class A common stock, \$0.0001 par value per share, and 168,179,488 shares of Class B common stock, \$0.0001 par value per share, issued and outstanding.

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Registrant's definitive proxy statement to be delivered to stockholders in connection with the 2023 annual meeting of stockholders are incorporated by reference in response to Part III of this Annual Report on Form 10-K to the extent stated herein. The 2023 Proxy Statement will be filed with the U.S. Securities and Exchange Commission within 120 days after the end of the fiscal year to which this report relates.

23ANDME HOLDING CO.
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CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K for the fiscal year ended March 31, 2023 (this “Form 10-K”), including, without limitation, statements under the headings “Management's Discussion and Analysis of Financial Condition and Results of Operations,” includes forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, (the “Securities Act”) and Section 21E of the Securities Exchange Act of 1934, as amended, (the “Exchange Act”). Generally, statements that are not historical facts, including statements concerning 23andMe Holding Co.'s (the “Company,” “23andMe,” “we,” “us,” or “our”) possible or assumed future actions, business strategies, events, or results of operations, are forward-looking statements. In some instances, these forward-looking statements can be identified by the use of forward-looking terminology, including, without limitation, words like “believes,” “estimates,” “anticipates,” “expects,” “intends,” “plans,” “may,” “will,” “potential,” “projects,” “predicts,” “continue,” or “should,” or, in each case, their negative or other variations or comparable terminology. There can be no assurance that actual results will not materially differ from expectations.

The forward-looking statements contained in this Form 10-K are based on our current expectations and beliefs, which we believe to be reasonable, concerning future developments and their potential effects on us. Future developments affecting us may not be those that we have anticipated. These forward-looking statements involve a number of risks, uncertainties (some of which are beyond our control), and other assumptions that may cause actual results or performance to be materially different from those expressed or implied by these forward-looking statements. These risks and uncertainties include, without limitation, those factors described under Part I, Item 1A: “Risk Factors” of this Form 10-K and our subsequent reports filed with the Securities and Exchange Commission (the “SEC”). Should one or more of these risks or uncertainties materialize, or should any of our assumptions prove incorrect, actual results may vary in material respects from those projected in these forward-looking statements. We undertake no obligation to update or revise any forward-looking statements, whether as a result of new information, future events, or otherwise, except as may be required under applicable securities laws. These risks described under Part I, Item 1A: “Risk Factors” may not be exhaustive.

By their nature, forward-looking statements involve risks and uncertainties because they relate to events and depend on circumstances that may or may not occur in the future. We caution you that forward-looking statements are not guarantees of future performance and that our actual results of operations, financial condition, and liquidity, and developments in the industry in which we operate may differ materially from those made in or suggested by the forward-looking statements contained in this Form 10-K. In addition, even if our results of operations, financial condition, and liquidity, and developments in the industry in which we operate are consistent with the forward-looking statements contained in this Form 10-K, those results or developments may not be indicative of results or developments in subsequent periods.

You should read this Form 10-K and the documents that we reference in this Form 10-K and have filed with the SEC as exhibits to this Form 10-K with the understanding that our actual future results, levels of activity, performance, and events and circumstances may be materially different from what we expect.

EXPLANATORY NOTE

As previously disclosed, VG Acquisition Corp. (“VGAC” and, after the Domestication as described below, “23andMe Holding Co.”), a Cayman Islands exempted company, entered into that certain Agreement and Plan of Merger, dated February 4, 2021, as amended on February 13, 2021 and March 25, 2021 (the “Merger Agreement”), by and among VGAC, Chrome Merger Sub, Inc., a Delaware corporation and wholly owned direct subsidiary of VGAC (the “Merger Sub”), and 23andMe, Inc., a Delaware corporation.

On June 16, 2021 (the “Closing Date”), as contemplated by the Merger Agreement, VGAC filed a notice of deregistration with the Cayman Islands Registrar of Companies, together with the necessary accompanying documents, and filed a certificate of incorporation and a certificate of corporate domestication with the Secretary of State of the State of Delaware, under which VGAC was domesticated and continued as a Delaware corporation, changing its name to 23andMe Holding Co. (the “Domestication”). As a result of and upon the effective time of the Domestication, among other things, each of the then issued and outstanding Class A and Class B ordinary shares of VGAC automatically converted, on a one-for-one basis, into shares of our Class A common stock, par value \$0.0001 per share (the “Class A common stock”). On the Closing Date, VGAC consummated the merger transaction contemplated by the Merger Agreement, whereby the Merger Sub merged with and into 23andMe, Inc., the separate corporate existence of the Merger Sub ceasing and 23andMe, Inc. being the surviving corporation and a wholly owned subsidiary of VGAC, now known as 23andMe Holding Co. (the “Merger”). Prior to the Merger, VGAC’s units, public shares, and public warrants were listed on the New York Stock Exchange (“NYSE”) under the symbols “VGAC.U,” “VGAC,” and “VGAC WS,” respectively. On June 17, 2021, the Company’s Class A common stock and public warrants began trading on The Nasdaq Global Select Market (“Nasdaq”), under the symbols “ME” and “MEUSW,” respectively. On December 28, 2021, the Company announced the completion of its redemption (the “Redemption”) of all of its outstanding warrants. In connection with the Redemption, the public warrants stopped trading on the Nasdaq and were delisted.

PART I

Item 1. Business

Overview

Our mission is to help people access, understand, and benefit from the human genome. To achieve this, we are building the leading direct-to-consumer precision medicine platform that powers our genetics driven therapeutics and research business.

We are dedicated to empowering customers to live healthier lives by providing consumers direct access to their genetic information, and digital access to affordable personalized healthcare through our Lemonaid Health (as defined below) telehealth platform.

We pioneered direct-to-consumer genetic testing, giving consumers unique, personalized information about their genetic health risks, ancestry, and traits. We were the first company to obtain Food and Drug Administration (“FDA”) authorization for a direct-to-consumer genetic test, and we are the only company to have FDA authorization, clearance, or an exemption from premarket notification for all of the carrier status, genetic health risk, cancer predisposition, and pharmacogenetics reports that we offer to customers. As of March 31, 2023, we had over 60 health and carrier status reports that were available to customers in the U.S.

Through our Lemonaid Health telehealth platform, we connect patients to licensed healthcare professionals to provide affordable and direct online access to medical care, from consultation through treatment, for a number of common conditions, using evidence-based guidelines and up-to-date clinical protocols. When medications are prescribed by Lemonaid Health’s affiliated healthcare professionals, patients can use Lemonaid Health’s online pharmacy for fulfillment. Patients also can access telehealth consultations for certain 23andMe genetic reports through Lemonaid.

We believe that we can revolutionize research through our premier database of genetic and phenotypic information crowdsourced from our millions of engaged customers. We have built the world’s largest crowdsourced platform for genetic research, with over 80% of our customers electing to participate in our research program. We believe that this platform allows us to accelerate research at an unprecedented scale, enabling us to discover insights into the origins of diseases and to speed the discovery and development of novel therapies.

We are developing a broad portfolio of genetically validated therapeutic candidates for a variety of diseases across different therapeutic areas with high unmet medical need. We have a diversified and differentiated portfolio, including one product candidate in clinical development, as well as more than twenty preclinical therapeutic programs. Each of our programs has been validated through our human genetics drug discovery platform. We believe the combination of a genetically validated discovery platform, to increase the probability of technical success, and a maturing therapeutic portfolio will position us for long-term success in our goal to advance next-generation, targeted medicines for people living with serious and life-threatening diseases.

Operating Segments

We operate in two reporting segments: Consumer & Research Services and Therapeutics.

Consumer & Research Services

Our Consumer & Research Services business segment comprises our Personal Genome Service® (“PGS”), our telehealth business, and research services.

PGS

Our PGS services provide customers with a broad suite of genetic reports, including information on customers’ genetic ancestral origins, personal genetic health risks, and chances of passing on certain rare carrier conditions to their children, as well as reports on how genetics can impact responses to medications. We believe that by providing customers with direct access to their genetic information, we can empower them to make better decisions by arming them with information about their risks of developing certain diseases or conditions and by highlighting opportunities for prevention and mitigation of disease.

In the U.S., Canada, and the United Kingdom (the “U.K.”), we offer two PGS services, and also offer a premium subscription service called 23andMe+. Ancestry Service is our base service and provides customers information about their genetic ancestral origins and how genetics may influence over 30 traits, such as physical features, sense perceptions, reactions to external stimuli and other traits. The service also includes a tool that enables customers who choose to opt in to connect with genetic relatives that are also customers of the Company. Our Health + Ancestry Service builds upon our Ancestry Service to also provide reports relating to a customer’s health predisposition (including certain cancers and other genetic health risks such as late-onset Alzheimer’s disease), carrier status (including for cystic fibrosis, sickle cell anemia and hereditary hearing loss), and wellness (including for deep sleep, lactose intolerance and genetic weight). Ancestry Service customers can upgrade to the Health + Ancestry Service for a fee. Additionally, in the U.S., we offer a third PGS service, Health Service, which is FSA-eligible and comes with health predisposition, carrier status, and wellness reports.

Our 23andMe+ premium subscription service offers customers the Health + Ancestry Service plus pharmacogenetic reports, a hereditary prostate cancer genetic health risk report (HOXB13-related), over 30 personalized genetic health predisposition reports based on our research, such as migraine, depression, asthma, coronary artery disease, and lupus, and advanced ancestry and health features. The personalized genetic health predisposition reports included in 23andMe+ include a hereditary prostate cancer genetic health risk report (HOXB13-related) and over 30 health reports developed by our scientists based upon data and insights gathered from customers who participate in 23andMe research, regarding conditions such as migraine, coronary artery disease, depression, lupus and uterine fibroids.

Our PGS services provide customers with an engaging experience, including access to updates on their genetic health and ancestry reports and new product features and the ability to connect with genetic relatives. Our Ancestry Service and Health + Ancestry Service are available for purchase on our website, 23andMe.com, and mobile app and, in the U.S., the U.K., and Canada, through Amazon. Our Health Service is available for purchase through Amazon and fsastore.com. Substantially all of the Company’s revenues are derived from the Consumer & Research Services segment, with revenue from PGS representing approximately 68%, 75% and 81% of our total revenues for the fiscal years ended March 31, 2023, 2022 and 2021, respectively.

Customers have the option to participate in our research programs and over 80% of our customers have chosen to do so. We analyze consenting customers’ genotypic data together with phenotypic data they provide to us concerning their health, physical characteristics, family origins, lifestyle, and other habits. We analyze this data using our proprietary machine learning and other analytic techniques in order to discover insights into whether and how particular genetic variants affect the likelihood of individuals developing specific diseases. These insights may highlight opportunities to develop a drug to treat or cure a specific disease. They may also provide information that customers can use to enhance their health wellness and medical care, including care accessed through our Lemonaid telehealth platform.

Telehealth

Our Lemonaid telehealth platform, which we acquired in connection with the Lemonaid Acquisition (as defined below) in November 2021, provides us with telehealth capabilities and enhances our ability to bring better healthcare and wellness offerings to patients. Through our Lemonaid telehealth platform, patients can access one of our affiliated licensed healthcare professionals for medical consultation and treatment for a number of common conditions, and telehealth consultations for certain 23andMe genetic reports. If a prescription is warranted, the patient can access our pharmacy services for delivery. Our pharmacy offers non-controlled medications for prevention and treatment of acute and chronic conditions. We make telehealth services available in the U.S. and, under a third-party brand, in the U.K.

Affiliated Professional Medical Corporations. Because many states limit the ownership of medical practices to licensed professionals and prohibit corporate ownership of medical practices, we offer medical services through affiliated professional medical corporations (“PMCs”) that are owned by a licensed medical provider in the applicable jurisdiction. All of the physicians and nurse practitioners who provide medical services to our patients are employees of the PMCs. Lemonaid, our wholly owned subsidiary, has a management services agreement (“MSA”) with each PMC pursuant to which Lemonaid provides business, administrative and non-clinical services to the PMC in exchange for a fixed fee. These services include IT, billing, insurance, tax, accounting and other administrative services, and do not include any clinical, diagnostic or treatment decisions, which are made solely by licensed practitioners based on evidence-based guidelines and clinical protocols. The MSAs are exclusive arrangements, and the PMCs were established specifically to provide medical services through our telehealth platform.

Affiliated Pharmacies. Our patients may choose to fill prescriptions provided to them by our affiliated healthcare professionals by using our pharmacy services. We facilitate the delivery of pharmacy services by our affiliated mail order pharmacy, offering patients delivery throughout the U.S. Our pharmacy services are provided on a self-pay basis and are not covered by third-party payors. We also provide a small number of compounded medications that are fulfilled by a third-party service provider that is not affiliated with us. We manage our affiliated pharmacies under MSAs pursuant to which we provide all administrative services as well as licensed pharmacists, support staff and infrastructure. Our MSAs with our affiliated pharmacies are exclusive arrangements, and the affiliated pharmacies

were established specifically to provide prescription medications when patients choose to use our platform to fill prescriptions written by our affiliated healthcare professionals.

Research Services

Through our research services, we use our vast database of genetic and phenotypic information provided by consenting customers to discover insights into the genetic origins of disease and to identify targets for drug development. These services are performed under agreements with universities, research institutions and pharmaceutical companies, including our multi-year collaboration agreement with an affiliate of GlaxoSmithKline (“GSK”), which was signed in July 2018 (the “GSK Agreement”) to leverage genetic insights to validate, rapidly progress development, and commercialize useful new drugs to market. The exclusive target discovery term of the GSK Agreement will expire in July 2023. After July 2023, we will be able to pursue new target discovery collaborations with other parties that leverage our extensive database, maturing capabilities and successful drug discovery track record through our work with GSK.

Therapeutics

Our Therapeutics business segment focuses on the use of genetic insights from our vast database of genetic and phenotypic information to develop novel therapies to improve patients’ lives. The Therapeutics segment consists of revenues from the out-licensing of intellectual property associated with identified drug targets and expenses related to therapeutic product candidates, either our own proprietary or collaboration programs, under clinical development. While our exclusive target discovery term with GSK will expire in July 2023, we have a number of ongoing programs that we will continue to collaborate with GSK under the GSK Agreement.

As of March 31, 2023, two of our programs had entered the clinic for testing in human patients. The Phase 2 portion of our wholly-owned Phase 1/2a Study of 23ME-00610 (P006) is currently underway in patients with advanced solid malignancies. 23ME-00610 is a high-affinity humanized monoclonal antibody that is designed to interfere with the ability of CD200R1 to interact with CD200 found on cancer cells. The other is an immuno-oncology program, GSK6097608, led by GSK, an antibody that targets CD96. CD96 sequesters a shared ligand (CD155) away from the costimulatory receptor (CD226), effectively attenuating T and NK cell anti-tumor immune responses. By blocking CD96, GSK6097608 may allow activation of CD226 and enhance anti-tumor immunity through T and NK cells. If a successful therapy were to be developed and commercialized by GSK using this target, we would be entitled to a royalty under the GSK Agreement.

Business Strategy

- **Building the most trusted brand in the industry.** Our customers and our patients are our partners. We seek to empower them with knowledge that will help them, and ultimately will help everyone, to live happier, healthier and longer lives. They choose how to use the genetic and health information we provide to them. We respect their choices, and we work every day to earn and keep their trust.
- **Revolutionizing healthcare.** Traditional healthcare is impersonal, difficult, and frustrating for consumers, and focuses on treatment and not prevention of disease. We believe that our customer-centric, personalized model has the power to radically shift traditional healthcare to a new focus on individualized care and prevention. We believe that our trusted brand, millions of engaged customers, and unique database of genetic information, combined with our telehealth platform for delivering affordable personalized care efficiently to patients, will provide us with the opportunity to create a new and innovative healthcare model that will drive future growth.
- **Scaling research.** Our research platform is based on a continually growing database of genotypic and phenotypic information. Our database allows us to conduct analyses in a broad-based fashion, by searching for genetic signatures of particular diseases or the likelihood of a particular genetic variant causing disease in a particular individual or group of individuals who share the same trait. Our platform enables us to rapidly and serially conduct studies across an almost unlimited number of conditions at unprecedented statistical power, yielding insights into the causes and potential treatments of a wide variety of diseases.
- **Efficiently develop novel therapeutics.** We believe that our research platform enables us to rapidly identify drug targets with improved odds of clinical success. With our state-of-the-art bioinformatics capabilities, we analyze the trillions of data points in our database, optimizing the use of our resources, to identify drug targets, inform patient selection for clinical trials and increase the probability of success of our programs. We are in the process of advancing new drugs through the development process leveraging our fully operational biopharma capabilities by rapidly selecting those with compelling clinical promise.

- **Maximizing our collaborations.** Since inception, we have worked with researchers in academia and in biopharma to demonstrate the quality and power of our database and advance discoveries, resulting in more than 200 published papers. Our collaboration with GSK further validates our drug discovery approach and we are excited about the portfolio of programs, across multiple disease areas, that we have built together. With the exclusive target discovery period ending in July 2023 under the GSK Agreement, we will be able to pursue new target discovery collaborations with other parties which will leverage our extensive database, maturing capabilities and successful drug discovery track record through our work with GSK.
- **Dreaming Big.** We have a founder-led, inclusive, entrepreneurially inspired and scientifically rigorous approach to all we do. Our customer-first, patient-focused and data-driven people are dedicated to our mission of helping people access, understand and benefit from the human genome. Their commitment to our vision and our mission differentiates us from other companies in the healthcare industry.

Acquisitions

VGAC Business Combination

On June 16, 2021, the Company consummated the Merger contemplated by the Merger Agreement. In connection with the Merger, VGAC completed the Domestication, whereby it changed its jurisdiction of incorporation from the Cayman Islands to the State of Delaware and changed its name to 23andMe Holding Co. On the closing date, the Merger Sub merged with and into 23andMe, Inc., with 23andMe, Inc. being the surviving corporation and a wholly owned subsidiary of the Company (together with the Merger and the Domestication, the “Business Combination”).

Lemonaid Acquisition

We completed our acquisition of Lemonaid Health, Inc. (“Lemonaid” or “Lemonaid Health”) on November 1, 2021 (the “Lemonaid Acquisition”). Lemonaid, an on-demand platform for accessing medical care and pharmacy services online, offers telemedicine, lab, and pharmacy services to patients in all 50 states, the District of Columbia, and the U.K. We believe that the addition of Lemonaid’s telehealth services to our consumer business will enable us to bring better healthcare to individuals in an affordable and accessible way and offer access to personalized healthcare, based on a patient’s wellness, choices, and genetics.

Market Opportunity

Consumer - PGS

We believe that our ability to analyze genetic information and provide personalized reports on genetic variations that are known to be associated with important health conditions empowers our customers. Armed with this personalized information, our customers have the ability to make informed, proactive decisions about their health and their lives. As of March 31, 2023, we had approximately 14.1 million customers.

We expect to continue to develop and provide our customers with new reports, including reports on cancer risks, autoimmune conditions, mental health, and pharmacogenetics. Additionally, we believe that direct-to-consumer genetic health testing is gaining wider acceptance by physicians in the U.S., and that we will be able to drive further acceptance through our telehealth platform.

We expect to continue to invest in expanding our PGS offerings and marketing our PGS to customers. As we attract more customers, we expect that we will benefit from the network effect created by an increasing cohort of customers who recommend our PGS to their families and friends, and who reap health benefits by using their genetic information to help them and their medical providers make better decisions about their care and lifestyle choices.

23andMe+[®] Subscription Service

The 23andMe+ service is an annual subscription that provides customers with exclusive reports and features not available in the basic Health + Ancestry Service. This subscription is an add-on to our Health + Ancestry Service. 23andMe+ provides customers with additional health reports, including multiple FDA-authorized pharmacogenetics reports, as well as personalized risk score reports based on 23andMe research. These new risk scores can help customers understand certain genetic health predispositions, such as atrial fibrillation, coronary artery disease, high LDL cholesterol, hypertension and migraine, and provide them with information on preventing and managing these conditions. The 23andMe+ subscription also provides customers with advanced ancestry-related features, such as enhanced tools and filters for finding genetic relatives. We are continually investing in new reports and features to provide to subscribers, and expect to add new reports for subscribers based on genetic insights from our research. We believe the 23andMe+ subscription will

enhance customer engagement as subscribers receive new content with discoveries about themselves throughout the subscription period and meaningful and customized information to help them lead healthier lives. As of March 31, 2023 and 2022, our 23andMe+ membership base had approximately 640,000 and 425,000 subscribers, respectively.

Consumer – Telehealth

Telehealth enables consumers to access healthcare conveniently, from their homes, and to obtain fast and affordable consultation, diagnosis and treatment without the difficulties of scheduling and traveling to physical appointments. By accessing medical consultation and treatment through our telehealth platform, patients are able to take ownership of their health. Support and demand for telehealth services have been increasing due to deregulation and broad societal shifts. We believe that we have the innovative, patient-first care model, the technical platform, the nationwide provider network, and the extensive pharmacy capabilities to be a leading provider of healthcare. Patients can interact with our affiliated healthcare professionals through either synchronous or asynchronous consultations, depending on the patient's need and applicable regulatory requirements. Patients also can consult with one of our affiliated healthcare professionals about certain 23andMe genetic reports. We plan to offer patients additional opportunities to integrate genetic information into their healthcare, which we believe will enhance the ability of medical providers to offer diagnoses and treatment tailored to patients' individual needs.

Therapeutics

We believe that our research platform can transform the process of drug development. Genetic data can significantly improve our understanding of diseases, their pathways and mechanisms, leading to the design and development of more targeted medicines. Use of genetic data in selecting drug targets can increase both the probability of success in a particular indication and avoid unwanted safety risks. The scale of our database provides us with a unique opportunity to pursue genetically targeted drug discovery by enabling us to:

- Query data that enable us to identify a statistically meaningful number of individuals who report having a particular disease, which we then use to determine whether the presence or absence of a particular genetic variant increases or decreases the likelihood of developing a disease;
- Conduct discovery at scale based on a substantial number of novel associations from a diverse range of people;
- Improve target selection with the aim of discovering safer, more effective “precision” medicines;
- Support identification of patient subgroups that are more likely to respond to targeted treatments; and
- More quickly identify and recruit patients for clinical studies from our re-contactable database.

Competition

Consumer (PGS and Telehealth)

We believe that our time, resources and history with the FDA is unmatched within the industry. We are the only direct-to-consumer genetic testing company that has gone through the rigorous analytical and clinical validation resulting in eight FDA authorizations and clearances to date. We face competition from other companies attempting to capitalize on the same, or similar, opportunities as we are, including from existing diagnostic, laboratory services and other companies entering the personal genetics market with new offerings such as direct access and/or consumer self-pay tests and genetic interpretation services and including services that may not currently comply with FDA regulations. Some of our current and potential competitors have longer operating histories and greater financial, technical, marketing and other resources than we do. These factors may allow our competitors to respond more quickly or efficiently than we can to new or emerging technologies. These competitors may engage in more extensive research and development efforts, undertake more far-reaching marketing campaigns and adopt more aggressive pricing and regulatory policies, which may allow them to build larger customer bases than we have. Our competitors may develop products or services that are similar to our products and services or that achieve greater market acceptance than our products and services. This could attract customers away from our services and reduce our market share. We believe that our ability to compete successfully will depend on the following factors:

- the size of our customer base;
- the timing and market acceptance of products and services, including the developments and enhancements to those products and services, offered by us or our competitors;
- customer service and support efforts;
- selling and marketing efforts;
- ease of use, performance, price and reliability of solutions developed either by us or our competitors; and
- our brand strength relative to our competitors.

Similarly, the markets for healthcare are intensely competitive, subject to rapid change, and significantly affected by new product and technological introductions and other market activities of industry participants. The number of companies entering the telehealth market with offerings similar to ours continues to increase. We compete directly not only with these new entrants and other established telehealth providers but also traditional healthcare providers and pharmacies. Our current competitors include traditional healthcare providers that have expanded or are expanding into the telehealth market, incumbent telehealth providers, as well as new entrants into our market that are focused on direct-to-consumer healthcare. Our competitors include enterprise-focused companies that may enter the direct-to-consumer healthcare industry, as well as direct-to-consumer healthcare providers. Many of our current and potential competitors may have greater name and brand recognition, longer operating histories, significantly greater resources than we do, and may be able to offer products and services similar to those offered on our platform at more attractive prices than we can.

Additionally, we believe that the COVID-19 pandemic has introduced many new users to telehealth and further reinforced its benefits to potential competitors. We believe that this may drive additional industry consolidation or collaboration involving competitors that may create competitors with greater resources and access to potential patients. The COVID-19 pandemic, and resulting changes in consumer behavior and expectations, may also cause various traditional healthcare providers to evaluate and pursue telehealth options that can be paired with their in-person capabilities. These industry changes could better position our competitors to serve certain segments of our current or future markets, which could create additional price pressure. In light of these factors, even if our offerings are more effective than those of our competitors, current or potential patients may accept competitive solutions in lieu of purchasing from us.

Therapeutics

Our therapeutics business faces substantial competition from larger, more established pharmaceutical and biotechnology companies with marketed products that have been accepted by the medical community, patients, and third-party payors, as well as smaller companies in our industry that have successfully identified and developed drugs. Our ability to compete in this industry may be affected by the previous adoption of such products by the medical community, patients, and third-party payors.

We recognize that other companies, including larger pharmaceutical and biotechnology companies, may be developing or have plans to develop drugs that may compete with ours. Many of our competitors have substantially greater financial, technical, and human resources than we have. In addition, many of our competitors have significantly greater experience than we have in undertaking preclinical studies and human clinical trials of drugs, obtaining FDA and other regulatory approvals of drugs for use in healthcare and manufacturing, and marketing and selling approved drugs. Our competitors may discover, develop or commercialize products or other novel technologies that are more effective, safer or less costly than any that we are developing. Our competitors may also obtain FDA or other regulatory approval for their drugs more rapidly than we may obtain approval for any drug that we develop.

We anticipate that the competition with our drugs will be based on a number of factors, including product efficacy, safety, availability, and price. The timing of market introduction of any successful drug and competitive drugs will also affect competition among products. We expect the relative speed with which we can develop drugs, complete the clinical trials and approval processes, and supply commercial quantities of such drugs to the market to be important competitive factors. Our competitive position will also depend upon our ability to attract and retain qualified personnel, to obtain patent protection or otherwise develop proprietary products or processes, protect our intellectual property, and to secure sufficient capital resources for the period between target identification and commercial sales of the resulting drug.

In the future we could potentially face increasing competition from companies utilizing artificial intelligence, or AI, and other computational approaches for consumer product development, and drug discovery and development. As we consider the future usage of AI in our business, we will carefully monitor emerging technologies, the market and potential competitors.

Seasonality

Historically, our PGS business has been seasonal, with our kit sales being dependent on seasonal holiday demand, variability in our advertising expenditures by season, and the timing of larger promotional events such as the Amazon Prime Day, which can vary each year. We generate a significant amount of our PGS revenue during the fourth quarter of our fiscal year, due to seasonal holiday demand and our increased advertising expenditures during the holiday period, which occurs during the third quarter of our fiscal year. Kit orders are recognized as revenue when the customer sends in their kit to the laboratory to be processed and genetic reports are delivered to the customer, which typically for seasonal holiday purchases tends to occur in our fourth fiscal quarter. For more information on the potential impacts of seasonality, see “Risk Factors” in Part I, Item 1A of this Form 10-K.

Manufacture/Supply

For our PGS, we do not have in-house manufacturing capabilities and do not plan to develop such capacity in the foreseeable future. We do have a quality system that is in compliance with 21 C.F.R. Part 820 and ISO 13485 for the regulated activities that are performed by us. We rely on third-party suppliers, which we have qualified in accordance with our quality system to provide materials (such as our saliva collection kits, bead chips, reagents or other materials and equipment used in our laboratory operations) and services. Currently, we rely on a sole supplier to manufacture our saliva collection kits. If we were to change the design of certain materials which we rely on, such as our bead chip or our saliva collection kit, we may be required to seek additional authorization or clearance from the FDA. Should we seek to utilize additional laboratories, prior to utilizing their services for our U.S. customers, the laboratories would need to obtain appropriate Clinical Laboratory Improvement Amendments of 1988 (“CLIA”) certification and state licensure (if required) including the validation of our testing services in accordance with FDA and CLIA regulations and expectations.

For our telehealth services, we operate an affiliated mail order pharmacy licensed in all 50 U.S. states and the District of Columbia. We rely on multiple third-party suppliers for our pharmaceuticals and there is a risk that we may experience supply chain issues that will impact our ability to fulfill prescriptions which would have a material impact on our business.

For Therapeutics, we do not have capability nor do we plan to develop current good manufacturing practices (“cGMP”) capacity for the manufacture, or supply of clinical therapeutics for our clinical trials nor for commercialization. We oversee the development of, and rely on third-party suppliers to provide, cGMP material for our planned clinical studies and will continue to work with contract manufacturers to improve process requirements to enable continued progress through clinical development to commercial medicines.

COVID-19

In March 2020, the World Health Organization designated the outbreak of a novel strain of coronavirus (“COVID-19”) as a global pandemic. COVID-19 has disrupted the Company’s general business operations since March 2020, and we have taken measures in response to the COVID-19 pandemic, including closing our offices and implementing a work-from-home policy for a period of time across most of our workforce, and amplifying monitoring of our inventory levels and supply chain. Notwithstanding these measures, the spread of COVID-19 has at certain times impacted our business and operations. We may take further actions that alter our business operations that we determine are in the best interests of our employees, customers, and stockholders or as may be required by federal, state, or local authorities. On May 5, 2023, the World Health Organization announced that COVID-19 was no longer a public health emergency.

Intellectual Property

Since inception, we have considered our intellectual property (“IP”) as a critical part of our mission. We make every effort to protect our IP, and as of March 31, 2023, have built an extensive patent estate owned by 23andMe, as summarized below:

Consumer (PGS) Patent Estate

Our PGS patent estate consists of 113 granted U.S. patents, which include 93 utility and 20 design patents that cover technologies that include graphical user interfaces, aspects of algorithms for processing genetic data, computer implemented inventions, bioinformatics, and genotyping.

Included in these are patents that relate to the following PGS services: (i) 14 design and 55 utility patents relate to our Ancestry Service, (ii) 16 design and 55 utility patents relate to our Health + Ancestry Service, and (iii) 17 utility patents relate to our 23andMe+ service. The PGS patent estate also includes 53 pending patent applications, which include two design applications, 37 U.S. utility applications, three Patent Cooperation Treaty (“PCT”) applications, five Canadian patent applications, and six European patent applications. Included in these are applications that relate to the following PGS services: (i) two design and 27 U.S. utility applications, six European patent applications, five Canadian patent applications, and one PCT applications relate to our Ancestry Service, (ii) two

design, 28 U.S. utility applications, six European patent applications, five Canadian patent applications, and one PCT application relate to our Health + Ancestry Service, and (iii) three U.S. utility applications, one European patent application, and one Canadian patent application relate to our 23andMe+ service.

Our PGS patent portfolio has expected expiration dates ranging from about 2027 to about 2043.

Therapeutics Patent Estate

Our therapeutics patent estate consists of two granted U.S. patents, one granted Nigerian patent and one South African patent that cover key areas of our past and current therapeutic development candidates. The therapeutics patent estate also includes 67 pending U.S. utility and foreign utility patent applications, which include eight U.S. utility applications and 59 foreign utility patent applications, covering key areas of our past and current therapeutic development candidates. These applications include those in the following jurisdictions: the PCT, Gulf Cooperation Council, Argentina, Taiwan, Australia, Brazil, Canada, Chile, China, Colombia, Costa Rica, Eurasia, Europe, Hong Kong, India, Indonesia, Israel, Iran, Japan, South Korea, Malaysia, Mexico, New Zealand, Nigeria, Peru, Philippines, Singapore, Thailand, Ukraine, Vietnam and South Africa. The subject matter of the therapeutics patent portfolio relates to our immuno-oncology and inflammatory disease and other therapeutic areas. Our therapeutics patent portfolio has expected expiration dates ranging from about 2039 to about 2043.

Please note that we cannot be sure that patents will be granted with respect to any patent applications we have filed or may file in the future, and we cannot be sure that any patents that have been granted or may be granted to us in the future will not be challenged, invalidated, or circumvented or that such patents will be commercially useful in protecting our technology.

We also appropriately guard our company trade secrets and know-how to maintain our business advantage and seek to identify and obtain third-party licenses where useful. In circumstances where we rely on trade secrets or proprietary know-how to protect our technology, we seek to protect such IP, in part, by entering into confidentiality agreements with those who have access to our confidential information, including our employees, contractors, consultants, collaborators, partners and advisors. We also internally designate levels of sensitive information with certain groups within the Company. We also seek to preserve the integrity and confidentiality of our trade secrets or proprietary know-how by maintaining physical security of our premises and physical and electronic security of our information technology systems. Although we have confidence in these individuals, organizations, and systems, agreements or security measures may be breached, and we may not have adequate remedies for any such breaches. In addition, our trade secrets or proprietary know-how may otherwise become known or may be independently discovered by competitors. To the extent that our employees, contractors, consultants, collaborators, and advisors use intellectual property owned by others in their work for us, disputes may arise as to the rights in related or resulting know-how and inventions. For this and more comprehensive risks related to our proprietary technology, inventions, improvements and product candidates, please see the section titled “Risk Factors—Risks related to our intellectual property” in Part I, Item 1A of this Form 10-K.

Government Regulation

Consumer (PGS) Business

Our genetic health risk, carrier status, and pharmacogenetic reports are subject to regulatory oversight by the FDA under provisions of the Federal Food, Drug, and Cosmetic Act (“FDCA”) and regulations thereunder, including regulations governing the development, marketing, labeling, promotion, manufacturing, distribution, and export of diagnostic products. The third-party laboratories that we contract with to perform the laboratory portions of our service are subject to oversight by the Centers for Medicare and Medicaid Services (“CMS”) pursuant to CLIA, as well as agencies in various states, including New York. We are subject to many other federal, state and foreign laws, including anti-fraud and abuse, anti-kickback and patient privacy. Failure to comply with applicable requirements can lead to sanctions, including withdrawal of products from the market, recalls, refusal to authorize government contracts, product seizures, exclusion from participation in federal and state healthcare programs, civil money penalties, injunctions, and criminal prosecution.

Regulation of In Vitro (“IVD”) Diagnostics and Medical Devices

IVDs are regulated by the FDA in the U.S. as medical devices in accordance with the FDCA and its implementing regulations. The FDCA and its implementing regulations govern the development, testing, manufacturing, labeling, advertising, marketing and distribution, and market surveillance of our medical devices.

Medical devices must undergo premarket review prior to commercialization unless the device is exempt from such review or was in commercial distribution prior to May 28, 1976 (referred to as a “pre-amendment” device).

- For devices that require premarket notification, a 510(k) submission is the regulatory process that requires the applicant to demonstrate that the device to be marketed is at least as safe and effective as, that is, substantially equivalent to, a legally marketed predicate device. The applicant must submit information that supports its determination that its subject device is substantially equivalent to a legally marketed predicate device. The 510(k) premarket notification pathway generally takes from three to nine months from the date the application is accepted for review but in limited situations can take longer.
- For devices that require approval of a premarket application (“PMA”), the PMA process requires the applicant to provide clinical and laboratory data that establishes that the medical device is safe and effective. The FDA will approve the device for commercial distribution if it determines that the data and information in the PMA application constitute valid scientific evidence and that there is reasonable assurance that the device is safe and effective for its intended use(s). PMA applications generally require extensive data, including technical, preclinical, clinical and manufacturing data, to demonstrate to the FDA’s satisfaction the safety and effectiveness of the device. As part of its review of the PMA, the FDA will conduct a pre-approval inspection of the manufacturing facility or facilities to ensure compliance with the Quality System Regulation (21 CFR Part 820) (“QSR”), which requires manufacturers to follow design, testing, control, documentation and other quality assurance procedures. If the FDA evaluations of both the PMA application and the manufacturing facilities are favorable, the FDA will either issue an approval letter or an approvable letter, which usually contains a number of conditions that must be met in order to secure the final approval of the PMA. If the FDA’s evaluation of the PMA or manufacturing facilities is not favorable, the FDA will deny the approval of the PMA or issue a not approvable letter. A not approvable letter will outline the deficiencies in the application and, where practical, will identify what is necessary to make the PMA approvable. Once granted, PMA approval may be withdrawn by the FDA if compliance with post-approval requirements, conditions of approval or other regulatory standards is not maintained, or problems are identified following initial marketing. The average review time for a PMA application is one to two years, but can take longer.
- Novel device technologies, including novel device changes, that have not been previously classified by the FDA and for which there is no suitable predicate device are considered Class III “by default” under the FDCA and would thus require a PMA. However, if the application of general and/or special controls can provide a reasonable assurance of safety and effectiveness, novel device technologies that are Class III “by default” may be eligible for authorization by the FDA via the De Novo pathway. To obtain marketing authorization via the De Novo pathway, the applicant must show that the subject device is low to moderate risk (or why through the application of special controls the subject device is low to moderate risk), such that it can be reclassified as Class I or Class II. The De Novo request pathway usually requires more testing data than a 510(k), and often requires clinical data. The average review time for a De Novo request is nine to 12 months but it can take longer.

Should a company need clinical data to support a premarket application, the FDA regulates clinical investigations through its Investigational Device Exemption (“IDE”) regulations 21 C.F.R. Part 812. Clinical investigations of devices that are of a significant risk require pre-approval from the FDA. Investigations of devices that are of a non-significant risk do not require FDA pre-approval; however, an Institutional Review Board (“IRB”) must agree that the study is of a non-significant risk. In addition, certain clinical investigations are exempted from IDE regulations including investigations of IVDs so long as certain criteria are met. The IDE regulations place specific requirements on sponsors and investigators of clinical studies including reporting to the FDA certain adverse events and record-keeping to demonstrate compliance with the regulations. The FDA can conduct periodic, unannounced inspections of sponsors and investigators to evaluate compliance with the IDE regulations. Failure to comply with the IDE regulations can subject the sponsor and investigator to administrative enforcement proceedings, civil penalties, and/or criminal penalties.

We utilized the De Novo and 510(k) pathways to seek authorization from the FDA for those aspects of the PGS products that are medical devices. Specifically, the FDA granted our first De Novo authorization to market our PGS product for Over-the-Counter Carrier testing for Bloom Syndrome in February 2015. Since 2015, we received three additional FDA De Novo Authorizations for Over-the-Counter Genetic Health Risks, BRCA1/BRCA2 Selected Variants and Pharmacogenetic Metabolism Information as well as two FDA 510(k) Clearances for MUTYH and Pharmacogenetic Drug Response Information. The regulations governing our authorizations and clearances place substantial restrictions on how our PGS service is marketed and sold, specifically, requirements on pre-purchase information we must provide to consumers and special controls we must comply with due to the over-the-counter nature of our PGS service. We may develop new diagnostic products and services that are regulated by the FDA as medical devices, or make changes to our medical devices that trigger a premarket submission which may require clinical data. The regulatory review and approval process for medical devices can be costly, timely, and uncertain. This process may involve, among other things, successfully completing additional clinical trials and submitting a premarket 510(k) submission, De Novo submission, or filing a premarket approval application with the FDA. If premarket review is required by the FDA, there can be no assurance that our tests will be cleared, authorized, or

approved on a timely basis, if at all. In addition, there can be no assurance that the claims we propose to the FDA for clearance, authorization, or approval will be cleared, authorized, or approved by the FDA.

We consider our Wellness reports and Polygenic Risk Score (“PRS”) reports to be either non-medical devices under the FDCA or to be low risk medical devices subject to FDA enforcement discretion from compliance with the requirements of the FDCA in accordance with FDA’s General Wellness: Policy for Low Risk Devices (issued July 29, 2016 and revised September 27, 2019). It is possible in the future that the FDA may disagree and conclude that some or all of our Wellness reports or Polygenic Risk Score reports are medical devices and not subject to enforcement discretion. As a result, we could be subject to enforcement action and penalties. We consider our COVID-19 Severity Calculator to be a medical device that is subject to FDA enforcement discretion in accordance with FDA’s Policy for Device Software Functions and Mobile Medical Applications (issued September 27, 2019). Using a risk-based approach, FDA’s policy established a group of software that meets the definition of a medical device but is subject to enforcement discretion from compliance with the requirements of the FDCA. It’s possible that the FDA may disagree that our COVID-19 Severity Calculator is subject to enforcement discretion and could thus subject us to an enforcement action and penalties. If this were to occur, we would likely have to utilize the premarket pathways described above.

Before and after a medical device is commercially released, we have ongoing responsibilities under FDA regulations which can increase the cost of conducting our business. The FDA reviews design and manufacturing practices, labeling and record-keeping, and manufacturers’ required reports of adverse experiences and other information to identify potential problems with marketed medical devices through periodic inspections. Specifically, these inspections evaluate our compliance with its QSR, among other FDA requirements. The QSR includes requirements related to the methods used in, and the facilities and controls used for, designing, manufacturing, packaging, labeling, storing, installing, and servicing of medical devices intended for human use. Our manufacturing operations, and those of our third-party finished device manufacturers, are required to comply with the QSR. QSR compliance is required for medical devices that are FDA approved and cleared, and generally required for medical devices exempt from FDA premarket notification. The FDA conducts announced and unannounced periodic and on-going inspections of medical device manufacturers to determine compliance with the QSR. If in connection with these inspections the FDA believes the manufacturer has failed to comply with applicable regulations and/or procedures, it may issue inspectional observations on a Form FDA-483 (“Form 483”) that would necessitate prompt corrective action. If the FDA determines that our response to the Form 483 is not adequate (e.g., the corrective action plan and/or objective evidence is insufficient), the FDA may issue a public or non-public warning letter (which would similarly necessitate prompt corrective action) and/or proceed directly to other forms of enforcement action, including the imposition of operating restrictions, a ceasing of operations at one or more facilities, enjoining and restraining certain violations of applicable law pertaining to products, seizure of products, and assessing civil or criminal penalties against our officers, employees or us. The FDA could also require the entry of a consent decree of permanent injunction with us. The FDA may also recommend prosecution to the U.S. Department of Justice (“DOJ”). Any adverse regulatory action, depending on its magnitude, may restrict us from effectively manufacturing, marketing and selling our products and could have a material adverse effect on our business, financial condition and results of operations.

Corruption

In situations involving healthcare providers or researchers employed by foreign state-funded institutions or national healthcare agencies, violation of the local anti-kickback or other anti-bribery laws may also constitute a violation of the U.S. Foreign Corrupt Practices Act (“FCPA”). The FCPA prohibits any U.S. individual, business entity or employee of a U.S. business entity from offering or providing, directly or through a third party, including the distributors we rely on in certain markets, anything of value to a foreign government official with corrupt intent to influence an award or continuation of business or to gain an unfair advantage, whether or not such conduct violates local laws. In addition, it is illegal for a company that reports to the SEC to have false or inaccurate books or records or to fail to maintain a system of internal accounting controls. We are also required to maintain accurate information and control over sales and distributors’ activities that may fall within the purview of the FCPA, its books and records provisions and its anti-bribery provisions.

Laboratory Certification, Accreditation and Licensing

We and our third-party laboratories are also subject to U.S. and state laws and regulations regarding the operation of clinical laboratories. Virtually all clinical laboratories operating in the U.S. must be certified by the federal government (generally delegated to the states to implement) or by a federally approved accreditation agency. Federal CLIA requirements regulated by the CMS and laws of certain states, including those of California, New York, Maryland, Pennsylvania, Rhode Island and Florida, impose certification requirements for clinical laboratories, and establish standards for quality assurance and quality control, among other things. State laws may require that laboratory personnel meet certain qualifications, specify certain quality controls, or require maintenance of certain records. CLIA provides that a state may adopt different or more stringent regulations than federal law and permits states to apply for exemption from CLIA if the state’s laboratory laws are equivalent to, or more stringent than, CLIA. For example, the State of New York’s clinical laboratory regulations, which have received an exemption from CLIA, contain provisions that are in certain respects more stringent than federal law. Therefore, as long as New York maintains a licensure program that is CLIA-exempt, we will need to

comply with New York’s clinical laboratory regulations in order to offer our clinical laboratory products and services in New York. Standards for testing under CLIA are based on the complexity of the tests performed by the laboratory, with tests classified as “high complexity,” “moderate complexity,” or “waived.” Laboratories performing high-complexity testing are required to meet more stringent requirements than moderate-complexity laboratories. Laboratories performing only waived tests, which are tests determined by the FDA to have a low potential for error and requiring little oversight, may apply for a certificate of waiver exempting them from most CLIA requirements.

We have current certificates to perform clinical laboratory testing to offer our PGS in all 50 states. Clinical laboratories are subject to inspection by regulators and to sanctions for failing to comply with applicable requirements. The sanctions for failure to comply with CLIA requirements include suspension, revocation or limitation of a laboratory’s CLIA certificate, which is necessary to conduct business; cancellation or suspension of the laboratory’s approval to receive Medicare and/or Medicaid reimbursement; as well as significant fines and/or criminal penalties. States also have licensure requirements and may impose additional sanctions on us. The loss or suspension of a CLIA certification, state license, imposition of a fine or other penalties, or future changes in CLIA and state law/regulations (or interpretation of the law or regulations) could have a material adverse effect on us.

Regulation of Consumer Products

The Federal Trade Commission (“FTC”) and U.S. Consumer Product Safety Commission (“CPSC”) also have jurisdiction over products offered by PGS (especially those aspects of our products that are not regulated by the FDA). The FTC requires that advertising claims be truthful, non-deceptive, fair, and adequately supported. The CPSC protects the American public from products that may present safety hazards, with labeling requirements, as well as reporting and remedial actions required if certain hazards or events are identified. Failure to comply with FTC and/or CPSC laws and implementing regulations or discovery of product hazards or noncompliance could subject us to enforcement proceedings, including mandatory recalls and penalties that could have a material adverse effect on us.

International

When marketing our PGS health reports outside of the U.S., we are subject to foreign regulatory requirements governing human clinical testing, export of biological or tissue samples, marketing approval for our products and performance and reporting of tests on a local basis. These requirements vary by jurisdiction, differ from those in the U.S. and may require us to perform additional preclinical or clinical testing. Marketing in Europe subjects us to European Union (“EU”) medical device oversight. Accordingly, we and certain of our contract manufacturers would be subject to ongoing compliance with various International Organization for Standardization (“ISO”) standards and ongoing regulatory oversight and review. These include routine inspections by EU Notified Bodies, which are entities accredited by an EU Member State to assess whether a product to be placed on the market meets certain preordained standards, of our manufacturing facilities and our records for compliance with requirements such as ISO 13485 and ISO 27001, which establish extensive requirements for quality assurance and control as well as manufacturing and change control procedures. Additionally, the EU adopted the IVD Regulation (“IVDR”) which increases the regulatory requirements applicable to IVDs in the EU and would require that we classify and obtain pre-approval for our PGS software, which would be subject to the IVDR as of May 26, 2026 (for Class C IVDs). At this time, our health reports are not considered IVDs and therefore not subject to pre-approval. If we are not able to obtain and maintain regulatory compliance, we may not be permitted to market our PGS health service and/or may be subject to enforcement by EU Competent Authorities, bodies with authority to act on behalf of the government of the applicable EU Member State to ensure that the requirements of the directive or regulation are met.

As of January 1, 2021, due to the U.K. leaving the EU, the United Kingdom Medicines and Healthcare products Regulatory Agency (“MHRA”) began implementation of new requirements for medical devices, including our health reports, marketed in Great Britain. The new regulations required that on or before January 1, 2022, we designate a U.K. Responsible Person and register our PGS software which is self-certified IVD. The U.K. will continue to allow marketing of our health reports pursuant to our existing CE mark while they develop and implement their own regulations.

In situations involving healthcare providers employed by state-funded institutions or national healthcare agencies, violation of the local anti-kickback law may also constitute a violation of the FCPA. The FCPA prohibits any U.S. individual, business entity or employee of a U.S. business entity from offering or providing, directly or through a third party, including the distributors we rely on in certain markets, anything of value to a foreign government official with corrupt intent to influence an award or continuation of business or to gain an unfair advantage, whether or not such conduct violates local laws. In addition, it is illegal for a company that reports to the SEC to have false or inaccurate books or records or to fail to maintain a system of internal accounting controls. We are also required to

maintain accurate information and control over sales and distributors' activities that may fall within the purview of the FCPA, its books and records provisions and its anti-bribery provisions.

Consumer (Telehealth) Business

The practice of medicine is subject to various federal, state, and local certification and licensing laws, regulations, approvals and standards, relating to, among other things, the qualifications of the provider, the practice of medicine (including specific requirements relating to online or telephone consultations and the provision of remote care), the continuity and adequacy of medical care, the maintenance of medical records, the supervision of personnel, and the prerequisites for the prescription of medication and ordering of tests. Because the practice of telehealth is relatively new and rapidly developing, regulation of telehealth is evolving and the application, interpretation and enforcement of these laws, regulations and standards can be uncertain or uneven. As a result, we must continually monitor legislative, regulatory, and judicial developments regarding the practice of medicine and telehealth in order to support our PMCs.

Physicians, mid-level providers (e.g., physician assistants, nurse practitioners), and behavioral health providers who provide professional clinical services via telehealth must, in most instances, hold a valid license to provide the applicable professional services in the state in which the patient is located. We have established systems to assist the PMCs in ensuring that their providers are appropriately licensed under applicable state law and that their provision of telehealth to our customers occurs in each instance in compliance with applicable rules governing telehealth.

In certain jurisdictions, the corporate practice of medicine doctrine generally prohibits non-physicians from practicing medicine, including by employing physicians to provide clinical services, directing the clinical practice of physicians, or holding an ownership interest in an entity that employs physicians. Other practices, such as professionals splitting their professional fees with non-professional persons or entities, is also prohibited in some jurisdictions. These laws are intended to prevent unlicensed persons from interfering with or unduly influencing a physician's professional judgment. State laws and enforcement activities related to the corporate practice of medicine and fee-splitting vary dramatically. In some states, even activities not directly related to the delivery of clinical services may be considered an element of the practice of medicine. For example, in some states the corporate practice of medicine restrictions may be implicated by non-clinical activities such as scheduling, contracting, setting rates, and the hiring and management of non-clinical personnel.

Because of the restrictions on the corporate practice of medicine doctrine and fee-splitting in various jurisdictions, we do not employ the healthcare providers who provide clinical services on our telehealth platform. Instead, the PMCs provide services on the platform, and we contract with but do not own the PMCs. We provide administrative, non-clinical services to the PMCs and bill them a fixed amount for those services, based on what we believe to be the fair market value of the services, pursuant to our contracts. The PMCs and their providers maintain exclusive authority regarding the provision of healthcare services (including consultations that may lead to the writing of prescriptions) and remain responsible for retaining and compensating their providers, credentialing decisions regarding their providers, maintaining professional standards, maintaining clinical documentation within medical records, establishing their own fee schedule, and submitting accurate information to us so that we can bill customers. Despite our care in structuring arrangements with the PMCs, it is possible that a regulatory authority or another party, including providers affiliated with PMCs, could assert that we (or other organizations with similar business models) are engaged in the corporate practice of medicine or that the contractual arrangements with PMCs violate a state's fee-splitting prohibition. Failure to comply with these state laws could lead to materially adverse consequences for the Company.

Regulation of Pharmacy Services

Our pharmacy services are subject to laws of various state and federal agencies. Our affiliated pharmacies face regulation on a number of issues that vary from state-to-state, including pharmacist-to-technician supervision ratios, practice of pharmacy, quality, sufficiency of facilities and equipment, prescription requirements, patient-friendly medication labeling, controlled substances, scheduled listed chemical, and listed chemical regulation, and ensuring a patient's freedom of choice in selecting their pharmacy, among a number of other requirements. On the federal level, pharmacies must comply with FDA's requirements under the Drug Supply Chain Security Act which are intended to preserve the integrity of the U.S. drug supply chain. The Drug Supply Chain Security Act requires pharmacies and others in the U.S. drug supply chain to comply with requirements for product tracking and tracing, information and pedigree exchange, reporting, investigations, and product quarantine and disposition. Further federal regulations apply to those pharmacies that dispense controlled substances scheduled listed chemicals, and listed chemicals under the Controlled Substance Act, which is implemented by the Drug Enforcement Administration. Furthermore, each pharmacist and technician must also obtain appropriate professional licensure and are subject to upholding state professional standards of conduct and patient privacy laws.

Privacy and Security Regulation

We are engaged in ongoing privacy compliance and oversight efforts, including in connection with the requirements of numerous local, state, federal and international laws, rules, and regulations relating to the privacy and security of directly or indirectly identifiable personal information (collectively, “Data Protection Laws”). Such Data Protection Laws regulate the collection, storage, sharing, use, disclosure, processing, transferring, and protection of personal information, including genetic information, and evolve frequently in scope and enforcement. There can also be uncertainty, differing interpretations, and potentially contradictory requirements across the privacy and security legal and regulatory landscape. In the U.S., some of the notable Data Protection Laws we are subject to include the California Consumer Privacy Act, as amended by the California Privacy Rights Act (collectively, the “CCPA”), the California Genetic Information Privacy Act (“GIPA”), California Confidentiality of Medical Information Act (“CMIA”), Section 5 of the Federal Trade Commission Act (“FTC Act”), the Telephone Consumer Protection Act of 1991 (“TCPA”) and, in the event of a data breach, various data breach laws across the 50 states and territories. Outside of the U.S., numerous countries have their own Data Protection Laws, including, but not limited to, the Canadian Personal Information Protection and Electronic Documents Act (“PIPEDA”) and the EU General Data Protection Regulation (“GDPR”), now also enacted in the U.K. (“UK GDPR”). 23andMe also expects additional Data Protection Laws to be proposed and enacted in the future, particularly in the U.S., and current Data Protection Laws to evolve frequently through new legislation and amendments to existing legislation and changes in enforcement approach. The effects of such changes may be inconsistent from one jurisdiction to another, and potentially far-reaching and may require us to modify our data processing practices and policies and incur substantial compliance-related costs and expenses. These new or modified Data Protection Laws, and other changes in laws or regulations relating to privacy, data protection and information security, particularly any new or modified laws or regulations that require enhanced protection of certain types of data or new obligations or restrictions with regard to data retention, transfer or disclosure and the use of data for research purposes, could greatly increase the cost of providing our offerings, require significant changes to our operations or even prevent us from providing certain offerings in jurisdictions in which we currently operate and in which we may operate in the future. Additionally, many of the Data Protection Laws give rights to control how data is used to the user and this is a potential significant business cost for us.

Data Protection Laws are enforced by the FTC, government authorities and agencies, including state attorneys general and national or state data protection authorities. Data Protection Laws require us to publish statements or notices to our customers that describe how we handle personal information and provide details of the choices that customers have about the way we handle their personal information and of their rights. If such information that we publish is considered untrue or inaccurate, we may be subject to claims of unfair or deceptive trade practices under Section 5 of the FTC Act or similar laws, which could lead to significant liabilities and consequences.

In the U.S., the CCPA creates additional obligations relating to consumer data, with enforcement of certain new provisions added by the California Privacy Rights Act beginning on July 1, 2023. The CCPA provides for fines of up to \$7,500 for intentional violations and a private right of action with respect to data breaches. Interpretation and enforcement of CCPA, including its current and forthcoming regulatory guidance, remain uncertain. Other states have enacted similar comprehensive privacy laws, which vary from the CCPA in certain aspects. For example, new consumer health privacy laws in Colorado, Virginia, Connecticut and Utah become effective in 2023, and a new consumer health privacy law in Washington, including a private right of action, becomes effective in 2024. The CMIA, among other state medical privacy laws, imposes additional requirements with respect to medical information, and provides for fines of between \$2,500 and \$250,000 per violation and a private right of action in the event medical information has been used or disclosed in violation of the CMIA.

Internationally, we are subject to, among other Data Protection Laws, the GDPR, UK GDPR, and PIPEDA which regulate collection, storage, sharing, use, disclosure, and protection of personal information, and impose stringent requirements with significant penalties and litigation risks for noncompliance. Like the U.S., international Data Protection Laws include national, state or provincial, and local laws, meaning compliance costs increase with every state, province, or locale we ship to. Failure to comply with the GDPR (and the UK GDPR) may result in fines of up to €20 million/£17.5 million or up to 4% of the annual global revenue of the infringer, whichever is greater. It may also lead to civil litigation, with the risks of damages or injunctive relief, or regulatory orders adversely impacting the ways in which our business can use personal information. While Canada’s PIPEDA does not have as stringent requirements and fines as the GDPR at this time, Canadian legislators are actively working on reforms to PIPEDA to align it with the GDPR. We anticipate that any reforms to PIPEDA will further increase our compliance costs and liabilities.

Where applicable, we rely on data transfer mechanisms to be able to transfer data between countries freely. We previously relied on the Privacy Shield certification for the purposes of transferring personal information out of the EU. In light of the invalidation of Privacy Shield in July 2020, we continue to rely on standard contractual clauses to transfer EU/UK personal information outside of the EU/UK, or where applicable derogations provided for by law. These clauses have been being revised, and the process and the implementation of new requirements related to the clauses, such as conducting additional risk assessments and implementing additional safeguards, will increase our costs. On March 25, 2022, the EU and U.S. announced that they had reached an agreement in principle on a new Trans-Atlantic Data Privacy Framework (the “Framework”), which will be translated into legal documents to be adopted in the

EU and U.S. to provide a renewed basis for transatlantic data transfers. However, if a new Framework is not adopted and we are unable to continue to rely on the standard contractual clauses or rely upon other alternative means of data transfers from the EU/UK to the U.S. (such as consent), we will likely be unable to offer a number of services in the EU/UK, which would materially and adversely affect our business. Additionally, in the U.S. and internationally, businesses are required to provide notice to affected customers whose personal information has been disclosed as a result of a data breach. Many countries and/or states require businesses to maintain safeguards and take certain actions in response to a data breach and may be required to also notify applicable regulatory authorities. Recently, some states, such as California, have explicitly added genetic information to their breach notification laws, which presents additional liabilities and costs to our business. Some U.S. states go beyond data breach notification and general security safeguards by requiring businesses to maintain specific security safeguards; for example, Massachusetts establishes minimum standards to be met in connection with the safeguarding of personal information contained in both paper and electronic records including maintaining security policies and procedures, security training for employees, regular audits. While many Data Protection Laws rely on regulatory enforcement for non-compliance with security safeguards or data breaches, there may be an increase in legislation like CCPA providing a private right of action for consumers in the event of a data breach. Civil litigation and security compliance present liabilities and costs with respect to maintaining and continually refining security safeguards and incident response processes.

We anticipate changes with Data Protection Laws as countries and states continue to propose comprehensive privacy laws and regulations addressing consumer data protection rights, transparency and cybersecurity. In certain states, these laws are directed specifically to genetic information or genetic testing companies, or more specifically direct-to-consumer genetic testing companies. Data Protection Laws specific to genetic information have recently been enacted in a number of states, including, but not limited to, California, Utah, Florida, and Arizona. Many other states are considering similar laws regulating genetic information, some of which include private rights of action for consumers. Such private rights of action present liabilities and costs to our business with respect to implementing and maintaining compliance with such laws, and potentially responding to civil litigation. We have incurred, and expect to continue to incur, significant expenses in an effort to comply with privacy, data protection and information security standards and protocols imposed by Data Protection Laws. With substantial uncertainty over the interpretation and application of these and other laws and regulations (such as CCPA, CMIA, and genetic privacy laws), we may face challenges in addressing their requirements and making necessary changes to our policies and practices, and may incur significant costs and expenses in an effort to do so.

Regulation of our Therapeutics Products and Programs

Government authorities in the U.S. at the federal, state and local level and in other countries regulate, among other things, the research, development, manufacture, testing, quality control, approval, labeling, packaging, storage, record-keeping, promotion, advertising, distribution, post-approval monitoring and reporting, marketing and export and import of drug and biological products. Generally, before a new drug or biologic can be marketed, considerable data demonstrating its quality, safety and efficacy must be obtained, organized into a format specific for each regulatory authority, submitted for review and approved, authorized, or cleared by the applicable regulatory authority. The process of obtaining regulatory approvals and the subsequent compliance with appropriate regional, federal, state, territorial and local statutes and regulations requires the expenditure of substantial time and financial resources. Failure to comply with the applicable requirements at any time during the product development process, approval process or following approval may subject an applicant to administrative actions or judicial sanctions. These actions and sanctions could include, among other actions, a regulatory agency's refusal to approve pending applications, withdrawal of an approval, license revocation, a clinical hold, untitled or warning letters, voluntary or mandatory product recalls or market withdrawals, product seizures, total or partial suspension of production or distribution, injunctions, fines, refusals of or debarment from government contracts, FDA debarment, exclusion from federal healthcare programs, restitution, disgorgement and civil or criminal fines or penalties. Any agency or judicial enforcement action could have a material adverse effect on our business, the market acceptance of our products and our reputation. Our drugs must be approved by the FDA through either a New Drug Application ("NDA"), or a Biologics License Application ("BLA"), process before they may be legally marketed in the U.S., and by similar processes for other regulatory regions. Moreover, the regulatory requirements governing our business are also evolving and will likely continue to evolve. By example, FDA has issued a growing number of guidance documents that provide its interpretation of regulatory requirements, including, with respect to pharmacogenomic data and information.

Preclinical Studies and Submission of an IND

Before testing any drug, biological, or gene therapy candidate in humans, the drug must undergo rigorous preclinical testing. Preclinical studies include laboratory evaluation of product chemistry and formulation, toxicity, stability, and purity, among other attributes. They also include in vitro and animal studies to assess safety and, in some cases, to establish a rationale for therapeutic use. The conduct of preclinical studies is subject to federal and state regulations and requirements, including Good Laboratory Practice ("GLP") regulations and requirements relating to animal testing. The sponsor submits the results of the preclinical tests, together with manufacturing information, analytical data, any available clinical data or literature and plans for clinical trials, among other things, to the FDA or other regulatory or oversight committee as part of an IND or Clinical Trial Application ("CTA"). In the U.S., an IND is a request for authorization from the FDA to administer an investigational drug to humans, and must become effective before human

clinical trials may begin. An IND will automatically become effective 30 days after receipt by the FDA, unless before that time the FDA raises concerns or questions and places the study on clinical hold. In that case, the IND sponsor and the FDA must resolve any outstanding FDA concerns or questions before clinical trials can proceed. Clinical holds may also be imposed by the FDA during the conduct of trials due to safety or compliance concerns. Some long-term preclinical testing, such as animal tests of reproductive adverse effects and carcinogenicity, may continue after the IND is submitted.

Human Clinical Trials

The clinical stage of development involves the administration of the investigational product to healthy volunteers or patients under the supervision of qualified investigators, generally physicians not employed by or under the trial sponsor's control, in accordance with good clinical practice ("GCP") requirements, which include the requirement that all research subjects provide their informed consent in writing for their participation in any clinical trial. Clinical trials are conducted under protocols detailing, among other things, the objectives of the clinical trial, dosing procedures, subject selection and exclusion criteria and the parameters to be used to monitor subject safety and assess efficacy. A protocol for each clinical trial and subsequent protocol amendments must be filed with the FDA as part of the IND. Sponsors will also be required to provide the FDA with diversity action plans. Furthermore, each clinical trial must be reviewed and approved by an IRB/ethics committee for each institution at which the clinical trial will be conducted to ensure that the risks to individuals participating in the clinical trials are minimized and are reasonable in relation to anticipated benefits. The IRB also approves the informed consent form that must be provided to each clinical trial subject or his or her legal representative as well as other subject communications and must monitor the clinical trial until completed. Special clinical trial ethical considerations also must be taken into account if a study involves children. In the case of certain gene therapy studies, an Institutional Biosafety Committee ("IBC") at the local level may also review and maintain oversight over the particular study, in addition to the IRB.

There also are requirements governing the reporting of ongoing clinical trials and completed clinical trial results to public registries. Information about certain clinical trials, including clinical trial results, must be submitted within specific timeframes for publication on the www.clinicaltrials.gov website or other comparable public trial registries. Sponsors of investigational products for the diagnosis, monitoring, or treatment of one or more serious disease or conditions must also have a publicly available policy on evaluating and responding to requests for expanded access. Investigators must further provide certain information to clinical trial sponsors to allow the sponsors to make financial disclosures to the FDA.

A sponsor who wishes to conduct a clinical trial outside of the U.S. may, but need not, obtain FDA authorization to conduct the clinical trial under an IND. If a foreign clinical trial is not conducted under an IND, the sponsor may submit data from the clinical trial to the FDA in support of an NDA or BLA. The FDA will accept a well-designed and well-conducted foreign clinical study not conducted under an IND if the study was conducted in accordance with GCP requirements, and the FDA is able to validate the data through an onsite inspection if deemed necessary. The data from the foreign clinical study must also be deemed by the FDA to be meaningful to the U.S. population.

Clinical trials generally are conducted in three sequential phases, known as Phase 1, Phase 2 and Phase 3, which may overlap, be divided, or be combined.

- Phase 1 clinical trials generally involve a small number of healthy volunteers or disease-affected patients who are initially exposed to a single dose and then multiple doses of the drug. The primary purpose of these clinical trials is to assess the metabolism, pharmacologic action, dosage tolerance, structure-activity relationships, mechanism of action, absorption, excretion, pharmacokinetics side effect tolerability, and safety of the drug. These trials also sometimes seek to gain an early indication of a product candidate's effectiveness.
- Phase 2 clinical trials involve studies in a limited disease-affected patient population to evaluate proof of concept and/or determine the dose required to produce the desired benefits. At the same time, safety and further PK and PD information is collected, possible adverse effects and safety risks are identified, and a preliminary evaluation of efficacy is conducted.
- Phase 3 clinical trials are adequate and well-controlled studies that involve a large number of patients at multiple sites and are designed to provide the data necessary to demonstrate the effectiveness of the product for its intended use, its safety in use and to establish the overall benefit/risk relationship of the product and provide an adequate basis for product labeling.

Additional kinds of data may also help support a BLA or NDA, such as patient experience data and real-world evidence. Real world evidence may also be used to assist in clinical trial design or support an NDA for already approved products. For genetically targeted populations and variant protein targeted products intended to address an unmet medical need in one or more patient subgroups with a serious or life threatening rare disease or condition, the FDA may allow a sponsor to rely upon data and information previously developed by the sponsor or for which the sponsor has a right of reference, that was submitted previously to support an approved application for a product that incorporates or utilizes the same or similar genetically targeted technology or a product that is the same or utilizes the same variant protein targeted drug as the product that is the subject of the application. More recently, a program was

established whereby a platform technology that is incorporated within or utilized by an approved drug or biologic product may be designated as a platform technology, provided that certain conditions are met, in which case development and approval of subsequent products using such technology may be expedited.

The FDA may require an applicant to conduct additional clinical trials after NDA or BLA approval to further evaluate the safety and effectiveness of the product. These post-approval trials, sometimes referred to as Phase 4 clinical trials, may be conducted after initial marketing approval. These trials are used to gain additional experience from the treatment of patients in the intended therapeutic indication and are commonly intended to generate additional safety data regarding use of the product in a clinical setting. In certain instances, the FDA may mandate the performance of Phase 4 clinical trials as a condition of approval of an NDA or BLA.

Progress reports detailing the results of the clinical trials, among other information, must be submitted at least annually to the relevant health authorities and IRBs. The sponsor must also notify relevant health authorities and the IRBs of adverse events or other significant safety information within specified timeframes. Certain reports may also be required to be submitted to the IBC. Changes to the enrollment of clinical trials, for example halting enrollment for a clinical safety signal, or completing expected clinical trial accrual may be reported on a clinical trial registration site such as clinicaltrials.gov and may provide publicly available information about the status of an ongoing clinical trial.

Phase 1, Phase 2, Phase 3, and other types of clinical trials may not be completed successfully within any specified period, if at all. The health authority or the sponsor may suspend or terminate a clinical trial at any time on various grounds, including a finding that the research subjects or patients are being exposed to an unacceptable health risk. Similarly, an IRB or ethics committee can suspend or terminate approval of a clinical trial at institutions under its jurisdiction if the clinical trial is not being conducted in accordance with their requirements or if the drug or biologic has been associated with unexpected serious harm to patients. IBCs can also require that research activities be ceased if applicable requirements are not being met. Additionally, some clinical trials are overseen by an independent group of qualified experts organized by the clinical trial sponsor, known as a data safety monitoring board or committee. This group may monitor the continued safety of the study, provide recommendations on study continuation, and/or provide authorization for whether a trial may move forward at designated check points based on access to certain data from the trial.

The manufacture of investigational drugs and biologics for the conduct of human clinical trials is subject to cGMP requirements. Investigational drugs and biologics and active ingredients and therapeutic substances imported into the U.S. are also subject to regulation by the FDA. Further, the export of investigational products outside the U.S. is subject to regulatory requirements of the receiving country as well as U.S. export requirements.

Concurrent with clinical trials, companies usually complete additional preclinical studies and also must develop additional information about the chemistry and physical characteristics of the drug or biologic as well as finalize a process for manufacturing the product in commercial quantities in accordance with cGMP requirements. The manufacturing process must be capable of consistently producing quality batches of the product and, among other things, companies must develop methods for testing the identity, strength, quality and purity of the final product. Additionally, appropriate packaging must be selected and tested, and stability studies must be conducted to demonstrate that the drugs do not undergo unacceptable deterioration over their shelf life.

FDA Review Process

Following completion of the clinical trials, data are analyzed to assess whether the investigational drug is safe and effective for the proposed indicated use or uses. The results of preclinical studies and clinical trials are then submitted to the FDA as part of an NDA or BLA, along with proposed labeling, chemistry and manufacturing information to ensure product quality and other relevant data. The NDA or BLA is a request for approval to market the drug or biologic for one or more specified indications and must contain proof of safety and efficacy for a drug or safety, purity and potency for a biologic. The application may include both negative and ambiguous results of preclinical studies and clinical trials, as well as positive findings. Data may come from company-sponsored clinical trials intended to test the safety and efficacy of a drug's use or from a number of alternative sources, including studies initiated by investigators. To support marketing approval, the data submitted must be sufficient in quality and quantity to establish the safety and efficacy of the investigational drug to the satisfaction of the FDA. FDA approval of an NDA or BLA must be obtained before a drug or biologic may be marketed in the U.S.

Under the Prescription Drug User Fee Act ("PDUFA"), as amended, each NDA or BLA subject to certain exceptions, must be accompanied by a user fee. The FDA adjusts the PDUFA user fees on an annual basis. The FDA reviews all submitted NDAs and BLAs before it accepts them for filing and may request additional information rather than accepting the NDA or BLA for filing. The FDA must make a decision on accepting an NDA or BLA for filing within 60 days of receipt, and such decision could include a refusal to file by the FDA. If additional information is requested by the FDA, the application must be resubmitted with the requested information and is subject to further review before being accepted for filing. Once accepted, the FDA begins an in-depth substantive review of the submission. Once the submission is accepted for filing, the FDA begins an in-depth review of the NDA or BLA. Under the goals and

policies agreed to by the FDA under PDUFA, the FDA targets ten months, from the filing date, in which to complete its initial review of a new molecular entity NDA or original BLA and respond to the applicant, and six months from the filing date of a new molecular entity NDA or original BLA designated for priority review, which are products that, if approved, would present significant improvements in the safety or effectiveness of the treatment, diagnosis, or prevention of a serious condition. The FDA does not always meet its PDUFA goal dates for standard and priority NDAs or BLAs, and the review process is often extended by FDA requests for or a sponsor's submission of additional information or clarification. The FDA also may audit data from or conduct remote regulatory assessments of clinical trials and clinical trial sites to ensure compliance with GCP requirements. The FDA will also inspect or conduct remote regulatory assessments of the facilities that manufacture the product candidate and will not approve a marketing application unless the agency confirms the manufacturer's compliance with GMP requirements. Additionally, the FDA may refer applications for novel products or products which present difficult questions of safety or efficacy to an advisory committee, a panel that includes clinicians and other experts, for review, evaluation and a recommendation as to whether the application should be approved and under what conditions, if any. For product candidates for which no active ingredient has previously been approved, such a referral is mandatory unless the FDA issues an action letter summarizing the reasons why it did not require an advisory committee review.

The FDA is not bound by recommendations of an advisory committee, but it considers such recommendations when making decisions on approval. The FDA likely will reanalyze the clinical trial data, which could result in extensive discussions between the FDA and the applicant during the review process. After the FDA evaluates an NDA or BLA, it will issue an approval letter or a Complete Response Letter. An approval letter authorizes commercial marketing of the drug or biologic with specific prescribing information for specific indications. A Complete Response Letter indicates that the review cycle of the application is complete and the application will not be approved in its present form. If a Complete Response Letter is issued, the applicant may either resubmit the NDA or BLA, addressing all of the deficiencies identified in the letter, or withdraw the application or request an opportunity for a hearing. Even if such data and information are submitted, the FDA may decide that the NDA or BLA does not satisfy the criteria for approval. Data obtained from clinical trials are not always conclusive and the FDA may interpret data differently than we interpret the same data. Even if approval is granted, the FDA may limit the approved product's indications for use, require labeling with significant warnings, limitations, or contraindications, or place other conditions on the approval that restricts the ability to market the product. For instance, the FDA may require post-approval testing or surveillance, or impose other restrictions on the product, including distribution restrictions or risk evaluation and mitigation strategies. The FDA may also not approve label statements that are necessary for successful commercialization and marketing.

European Medicines Agency (EMA) Review Process

In the European Economic Area ("EEA"), which is comprised of the 27 Member States of the European Union (including Norway and excluding Croatia), Iceland and Liechtenstein, drugs can only be commercialized after obtaining a marketing authorization ("MA"). Before granting the MA, the EMA or the competent authorities of the Member States of the EEA make an assessment of the risk-benefit balance of the product on the basis of scientific criteria concerning its quality, safety and efficacy. There are two types of marketing authorizations:

- The Community MA is issued by the European Commission through the Centralized Procedure, based on the opinion of the Committee for Medicinal Products for Human Use ("CHMP") of the EMA, and is valid throughout the entire territory of the EEA. The Centralized Procedure is mandatory for certain types of products, such as biotechnology medicinal products, orphan medicinal products, advanced-therapy medicines such as gene-therapy, somatic cell-therapy or tissue-engineered medicines and medicinal products containing a new active substance indicated for the treatment of HIV, AIDS, cancer, neurodegenerative disorders, diabetes, autoimmune and other immune dysfunctions and viral diseases. The Centralized Procedure is optional for products containing a new active substance not yet authorized in the EEA, or for products that constitute a significant therapeutic, scientific or technical innovation or which are in the interest of public health in the European Union.
- National MAs, which are issued by the competent authorities of the Member States of the EEA and only cover their respective territory, are available for products not falling within the mandatory scope of the Centralized Procedure. Where a product has already been authorized for marketing in a Member State of the EEA, this National MA can be recognized in another Member State through the Mutual Recognition Procedure. If the product has not received a National MA in any Member State at the time of application, it can be approved simultaneously in various Member States through the Decentralized Procedure. Under the Decentralized Procedure an identical dossier is submitted to the competent authorities of each of the Member States in which the MA is sought, one of which is selected by the applicant as the Reference Member State, or RMS. The competent authority of the RMS prepares a draft assessment report, a draft summary of the product characteristics ("SPC") and a draft of the labeling and package leaflet, which are sent to the other Member States (referred to as the Member States Concerned) for their approval. If the Member States Concerned raise no objections, based on a

potential serious risk to public health, to the assessment, SPC, labeling, or packaging proposed by the RMS, the product is subsequently granted a national MA in all the Member States (i.e., in the RMS and the Member States Concerned).

Orphan Drug Designation and Exclusivity

Under the Orphan Drug Act, the FDA may grant orphan designation to a drug or biological product intended to treat a rare disease or condition, which is generally a disease or condition that affects fewer than 200,000 individuals in the U.S., or more than 200,000 individuals in the U.S. and for which there is no reasonable expectation that the cost of developing and making the product available in the U.S. for this type of disease or condition will be recovered from sales of the product. Orphan drug designation must be requested before submitting an NDA or BLA. If there is another product approved by FDA for the same orphan indication, which FDA deems to be the same as the investigational product, the sponsor of the investigational product must also present a plausible hypothesis of clinical superiority for FDA to grant an orphan drug designation. This hypothesis must be demonstrated to obtain orphan drug exclusivity. After the FDA grants orphan drug designation, the identity of the therapeutic agent and its potential orphan use are disclosed publicly by the FDA. Orphan drug designation does not convey any advantage in or shorten the duration of the regulatory review and approval process. If a product that has orphan drug designation subsequently receives the first FDA approval for the disease or condition for which it has such designation, the product is entitled to orphan drug exclusivity, which means that the FDA may not approve any other applications to market the same drug for the same indication for seven years from the date of such approval, except in limited circumstances, such as a showing of clinical superiority to the product with orphan exclusivity by means of greater effectiveness, greater safety or providing a major contribution to patient care, or in instances of drug supply issues. Competitors, however, may receive approval of either a different product for the same indication or the same product for a different indication. In such cases, the second in time product could be used off-label in the orphan indication. Orphan drug exclusivity also could block the approval of one of our products for seven years if a competitor obtains approval before we do for the same product, as defined by the FDA, for the same indication we are seeking approval, or if our product is determined to be contained within the scope of the competitor's product for the same indication or disease. If we pursue marketing approval for an indication broader than any orphan drug designation we have received, we may not be entitled to orphan drug exclusivity.

Notably, the scope of orphan drug exclusivity may be an evolving area. A 2021 judicial decision, *Catalyst Pharms., Inc. v. Becerra*, challenged and reversed an FDA decision on the scope of orphan product exclusivity for the drug, Firdapse. Under this decision, orphan drug exclusivity for Firdapse blocked approval of another company's application for the same drug for the entire disease or condition for which orphan drug designation was granted, not just the disease or condition for which approval was received. In a January 2023 Federal Register notice, however, the FDA stated that it intends to continue to apply its regulations tying the scope of orphan-drug exclusivity to the uses or indications for which a drug is approved. The exact scope of orphan drug exclusivity will likely be an evolving area.

Whether a gene therapy product qualifies for orphan designation is also an evolving area. The FDA issued a final guidance document on how the agency will determine gene therapy product "sameness." Pursuant to the guidance, "sameness" will depend on the product's transgene expression, viral vectors groups and variants, and other product features that may have a therapeutic effect. Generally, minor differences between gene therapy products will not result in a finding that two products are different. Any FDA sameness determinations could impact our ability to receive approval and obtain or maintain orphan exclusivity.

In the European Union, the EMA's Committee for Orphan Medicinal Products grants orphan drug designation to promote the development of products that are intended for the diagnosis, prevention or treatment of life-threatening or chronically debilitating conditions affecting not more than five in 10,000 persons in the European Union community (or where it is unlikely that the development of the medicine would generate sufficient return to justify the investment) and for which no satisfactory method of diagnosis, prevention or treatment has been authorized (or, if a method exists, the product would be a significant benefit to those affected). In the EU, orphan drug designation entitles a party to financial incentives such as reduction of fees or fee waivers and ten years of market exclusivity is granted following drug approval. This period may be reduced to six years if the orphan drug designation criteria are no longer met, including where it is shown that the product is sufficiently profitable not to justify maintenance of market exclusivity. Orphan drug designation must be requested before submitting an application for marketing approval. Orphan drug designation does not convey any advantage in, or shorten the duration of, the regulatory review and approval process.

Expedited Development and Review Programs

A sponsor may seek to develop and obtain approval of its drugs under programs designed to accelerate the development, FDA review and approval of new drugs and biologics that meet certain criteria. For example, the FDA has a fast track program that is intended to expedite review of or facilitate development of new drugs and biologics that are intended to treat a serious or life-threatening disease or condition and demonstrate the potential to address unmet medical needs for the condition. Fast track designation applies to both the product and the specific indication for which it is being studied. If fast track designation is obtained, sponsors may be eligible for more frequent development meetings and correspondence with the FDA. For a fast track-designated product, the FDA may consider sections

of the NDA or BLA for review on a rolling basis before the complete application is submitted, if the sponsor provides a schedule for the submission of the sections of the application, the FDA agrees to accept sections of the application and determines that the schedule is acceptable and the sponsor pays any required user fees upon submission of the first section of the application. The sponsor can request the FDA to designate the product for fast track status any time before receiving NDA or BLA approval, but ideally no later than the pre-NDA or pre-BLA meeting. A product submitted to the FDA for marketing, including under a fast track program, may be eligible for other types of FDA programs intended to expedite development or review, such as priority review and accelerated approval. The FDA's goal for reviewing a fast-track application only begins once the final section of the marketing application has been submitted. If data emerging during the clinical trial process no longer supports the fast-track designation, the FDA may withdraw it.

Priority review means that, for a new molecular entity or original BLA, the FDA sets a target date for FDA action on the marketing application at six months after accepting the application for filing as opposed to ten months. A drug is eligible for priority review if it is designed to treat a serious or life-threatening disease condition and, if approved, would provide a significant improvement in safety and effectiveness compared to available therapies. If criteria are not met for priority review, the application for a new molecular entity or original BLA is subject to the standard FDA review period of ten months after the FDA accepts the application for filing. Priority review designation does not change the scientific/medical standard for approval or the quality of evidence necessary to support approval.

A product may also be eligible for accelerated approval if it is designed to treat a serious or life-threatening disease or condition and demonstrates an effect on either a surrogate endpoint that is reasonably likely to predict clinical benefit or on a clinical endpoint that can be measured earlier than irreversible morbidity or mortality that is reasonably likely to predict an effect on irreversible morbidity or mortality or other clinical benefit, taking into account the severity, rarity, or prevalence of the disease or condition and the availability or lack of alternative treatments. The product must also provide a meaningful therapeutic benefit to patients over existing treatments. As a condition of approval, the FDA requires that a sponsor of a drug or biologic receiving accelerated approval perform adequate and well-controlled post-approval confirmatory clinical trials. By the date of approval of an accelerated approval product, the FDA must specify the conditions for the required post approval studies, including enrollment targets, the study protocol, milestones, and target completion dates. The FDA may also require that the confirmatory Phase 4 studies be commenced prior to FDA granting a product accelerated approval. Progress reports on these studies must be submitted to the FDA every 180 days after approval. In addition, the FDA requires as a condition for accelerated approval pre-review of promotional materials, which could adversely impact the timing of the commercial launch of the product. The FDA may withdraw approval of a drug or indication approved under accelerated approval using a statutorily defined streamlined process if, for example, the confirmatory trial fails to verify the predicted clinical benefit of the product. Failure to conduct the required Phase 4 confirmatory studies or to conduct such studies with due diligence, as well as failure to submit the required update reports can subject a sponsor to penalties. In recent years, the accelerated approval pathway has come under significant FDA and public scrutiny. Accordingly, the FDA may become reluctant in granting accelerated approval or, if granted, may withdraw approval if clinical benefit is not confirmed.

Additionally, a drug or biologic may be eligible for designation as a breakthrough therapy if the product is intended, alone or in combination with one or more other drugs or biologics, to treat a serious or life-threatening condition and preliminary clinical evidence indicates that the product may demonstrate substantial improvement over currently approved drugs on one or more clinically significant endpoints, such as substantial treatment effects observed early in clinical development. If the FDA designates a breakthrough therapy, it may take actions appropriate to expedite the development and review of the application, which may include holding meetings with the sponsor and the review team throughout the development of the therapy; providing timely advice to, and interactive communication with, the sponsor regarding the development of the drug to help the sponsor design a development program to gather the nonclinical and clinical data necessary for approval as efficient as practicable; involving senior managers and experienced review staff, as appropriate, in a collaborative, cross-disciplinary review; assigning a cross-disciplinary project lead for the FDA review team to facilitate an efficient review of the development program and to serve as a scientific liaison between the review team and the sponsor; and considering alternative clinical trial designs when scientifically appropriate, which may result in smaller trials or more efficient trials that require less time to complete and may minimize the number of patients exposed to a potentially less efficacious treatment. The FDA may revoke breakthrough therapy designation if the Agency determines that the product no longer qualifies for this status, for example, if subsequent data does not confirm the clinical efficacy, or if another product addresses the previously serious condition.

Another expedited pathway is the Regenerative Medicine Advanced Therapy ("RMAT") designation. Qualifying products must be a cell therapy, therapeutic tissue engineering product, human cell and tissue product, or a combination of such products, and not a product solely regulated as a human cell and tissue product. The product must be intended to treat, modify, reverse, or cure a serious or life-threatening disease or condition, and preliminary clinical evidence must indicate that the product has the potential to address an unmet need for such disease or condition. Advantages of the RMAT designation include all the benefits of the Fast Track and breakthrough therapy designation programs, including early interactions with the FDA. These early interactions may be used to discuss potential surrogate or intermediate endpoints to support accelerated approval.

Even if a product qualifies for one or more of these programs, the FDA may later decide that the product no longer meets the conditions for qualification or the time period for FDA review or approval may not be shortened. Furthermore, fast track designation, priority review, accelerated approval and breakthrough therapy designation do not change the standards for full approval.

Pediatric Information and Pediatric Exclusivity

In the U.S., under the Pediatric Research Equity Act (“PREA”), certain NDAs and BLAs and certain supplements to an NDA or BLA must contain data to assess the safety and efficacy of the drug for the claimed indications in all relevant pediatric subpopulations and to support dosing and administration for each pediatric subpopulation for which the product is safe and effective. The FDA may grant deferrals for submission of pediatric data or full or partial waivers. PREA does not apply to products that have been granted orphan designation. However, PREA does apply if approval is sought for indications that are broader than or not covered by the orphan designation.

The FDA Reauthorization Act of 2017 introduced an additional provision regarding required pediatric studies. Under this statute, for product candidates intended for the treatment of adult cancer which are directed at molecular targets that the FDA determines to be substantially relevant to the growth or progression of pediatric cancer, original application sponsors must submit, with the marketing application, reports from molecularly targeted pediatric cancer investigations designed to yield clinically meaningful pediatric study data, gathered using appropriate formulations for each applicable age group, to inform potential pediatric labeling. The FDA may, on its own initiative or at the request of the applicant, grant deferrals or waivers of some or all of this data, as above. Unlike PREA, orphan products are not exempt from this requirement.

A drug or biologic product can also obtain pediatric market exclusivity in the U.S. that, if granted, adds six months to existing exclusivity periods and, for drug products (as opposed to biologic products) any patent terms listed in FDA’s list of Approved Drug Products with Therapeutic Equivalence Evaluations, which is commonly known as the Orange Book. This six-month exclusivity, which runs from the end of the applicable exclusivity protection or patent term, may be granted based on the voluntary completion of a pediatric study in accordance with an FDA-issued “Written Request” for such a study. To qualify for this exclusivity, the study must be completed in accordance with the Written Request and within specified timeframes prior to the expiration of the underlying patents or market exclusivity periods that would be extended. The study is not required, however, to show that the product is safe or efficacious in pediatric populations.

In the EEA, MAAs for new drugs must include the results of studies conducted in the pediatric population, in compliance with a pediatric investigation plan, or PIP, agreed with the EMA’s Pediatric Committee (“PDCO”). The PIP sets out the timing and measures proposed to generate data to support a pediatric indication of the drug for which marketing authorization is being sought. The PDCO can grant a deferral of the obligation to implement some or all of the measures of the PIP until there are sufficient data to demonstrate the efficacy and safety of the product in adults. Further, the obligation to provide pediatric clinical trial data can be waived by the PDCO when this data is not needed or appropriate because the product is likely to be ineffective or unsafe in children, the disease or condition for which the product is intended occurs only in adult populations, or when the product does not represent a significant therapeutic benefit over existing treatments for pediatric patients. Once the marketing authorization is obtained in all Member States of the European Union and trial results are included in the product information, even when negative, the product is eligible for six months’ supplementary protection certificate extension.

Post-Approval Requirements

Following approval of a new product, the manufacturer and the approved product are subject to continuing regulation by the FDA, including, among other things, monitoring and record-keeping activities, reporting of adverse events, product tracking and tracing, suspect and illegitimate product investigations and reporting, complying with promotion and advertising requirements, which include restrictions on promoting products for unapproved uses or patient populations (known as “off-label use”) and limitations on industry sponsored scientific and educational activities. Although physicians may prescribe legally available products for off-label uses, manufacturers may not market or promote such uses. The FDA and other agencies actively enforce the laws and regulations prohibiting the promotion of off-label uses, and a company that is found to have improperly promoted off-label uses may be subject to significant liability, including investigation by federal and state authorities. Prescription drug promotional materials must be submitted to the FDA in conjunction with their first use or first publication. Further, if there are any modifications to the drug or biologic, including changes in indications, labeling or manufacturing processes or facilities, the applicant may be required to submit the change and/or obtain additional regulatory approval, for example, of a new supplementary NDA or BLA, which may require the development of additional data or preclinical studies and clinical trials.

Health authorities may also place other conditions on approvals, either at the time of approval or after, including the requirement for a Risk Evaluation and Mitigation Strategy (“REMS”), to assure the safe use of the product. If the FDA concludes a REMS is needed, the sponsor of the NDA or BLA must submit a proposed REMS. The FDA will not approve the NDA or BLA without an approved

REMS, if required. A REMS could include medication guides, physician communication plans, restricted physician prescribing, or other elements to assure safe use, such as restricted distribution methods, patient registries and other risk minimization tools. Any of these limitations on approval or marketing could restrict the commercial promotion, distribution, prescribing or dispensing of products. Product approvals may be withdrawn for non-compliance with regulatory standards or if problems occur following initial marketing.

FDA regulations require that products be manufactured in specific approved facilities and in accordance with cGMP regulations. We rely, and expect to continue to rely, on third parties for the production of clinical and commercial quantities of our products in accordance with cGMP regulations. These manufacturers must comply with cGMP regulations that require, among other things, quality control and quality assurance, the maintenance of records and documentation and the obligation to investigate and correct any deviations from cGMP. Certain GMP deviations also require reporting to the FDA. Manufacturers and other entities involved in the manufacture and distribution of approved drugs or biologics are required to register their establishments with the FDA and certain state agencies, and list the products produced at the facility. There are also continuing program user fees that product sponsors must pay. Recently, the information that must be submitted to the FDA regarding manufactured products was expanded through the Coronavirus Aid, Relief, and Economic Security, or CARES, Act to include the volume of drugs produced during the prior year. These facilities are also subject to periodic unannounced inspections and remote regulatory assessments by the FDA and certain state agencies for compliance with cGMP requirements and other laws. Accordingly, manufacturers must continue to expend time, money and effort in the area of production and quality control to maintain cGMP compliance. The discovery of violative conditions, including failure to conform to cGMP regulations, could result in enforcement actions, and the discovery of problems with a product after approval may result in restrictions on a product, manufacturer or holder of an approved NDA or BLA, including recall. Once an approval is granted, the FDA may issue enforcement letters or withdraw the approval of the product if compliance with regulatory requirements and standards is not maintained or if problems occur after the drug or biologic reaches the market. Corrective action could delay drug or biologic distribution and require significant time and financial expenditures. Later discovery of previously unknown problems with a drug or biologic, including AEs of unanticipated severity or frequency, or with manufacturing processes, or failure to comply with regulatory requirements, may result in revisions to the approved labeling to add new safety information; revisions to promotional material; the provision of corrective information; adverse publicity; imposition of post-market studies or clinical trials to assess new safety risks; or imposition of distribution or other restrictions under a REMS program. Other potential consequences include, among other things:

- restrictions on the marketing or manufacturing of the drug or biologic, suspension of the approval, complete withdrawal of the drug from the market or product recalls;
- fines, warning letters, untitled letters, or cyber letters, or holds on post-approval clinical trials;
- refusal of the FDA to approve applications or supplements to approved applications, or suspension or revocation of drug or biologic approvals;
- drug or biologic seizure or detention, or refusal to permit the import or export of drugs; or
- injunctions or the imposition of civil or criminal penalties, FDA or contract debarment, refusal of orders under existing governmental contracts, exclusion from participation in federal and state healthcare programs, restitution, disgorgement, corporate integrity agreements and consent decrees, among other consequences described in this filing.

New or modified laws, regulations, and requirements may also be passed that could delay or prevent FDA approval of our product candidates or otherwise negatively impact our commercial prospects. For example, in March 2020, the U.S. Congress passed the Coronavirus Aid, Relief, and Economic Security Act, or CARES Act, which includes various provisions regarding FDA drug shortage and manufacturing volume reporting requirements, as well as provisions regarding supply chain security, such as risk management plan requirements, and the promotion of supply chain redundancy and domestic manufacturing. As part of the CARES Act implementation, the FDA issued a guidance on the reporting of the volume of drugs produced, which reporting will require additional administrative efforts by drug manufacturers.

Additional Biological and Gene Therapy Requirements

To help reduce the increased risk of the introduction of adventitious agents, the FDA statutes emphasize the importance of manufacturing controls for products whose attributes cannot be precisely defined and provides the FDA with the authority to immediately suspend licenses in situations where there exists a danger to public health, to prepare or procure products in the event of shortages and critical public health needs, and to authorize the creation and enforcement of regulations to prevent the introduction or spread of communicable diseases in the U.S. and between states.

After a BLA is approved, the product may also be subject to official lot release as a condition of approval. As part of the manufacturing process, the manufacturer is required to perform certain tests on each lot of the product before it is released for distribution. If the product is subject to official release by the FDA, the manufacturer submits samples of each lot of product to the FDA together with a release protocol showing the results of all of the manufacturer's tests performed on the lot. The FDA may also perform certain confirmatory tests on lots of some products before releasing the lots for distribution by the manufacturer.

In addition, the FDA conducts laboratory research related to the regulatory standards on the safety, purity, potency, and effectiveness of biological products.

In addition to the requirements discussed above, there are a number of additional standards that apply to clinical trials involving the use of gene therapy. Certain gene therapy studies are subject to the National Institutes of Health's Guidelines for Research Involving Recombinant DNA Molecules. The FDA has also issued various guidance documents regarding gene therapies, which outline additional factors that the FDA will consider during product development. These include guidance regarding preclinical and clinical studies; chemistry, manufacturing, and controls; the measurement of product potency; how the FDA will determine whether a gene therapy product is the same as another product for the purpose of the agency's orphan drug regulations; and long-term patient and clinical study subject follow up and regulatory reporting.

Biosimilars and Exclusivity

Certain of our drugs may be regulated as biologics. An abbreviated approval pathway for biological products shown to be similar to, or interchangeable with, an FDA-licensed reference biological product was created by the Biologics Price Competition and Innovation Act of 2009 ("BPCI Act") as part of the ACA. This amendment to the PHSA, in part, attempts to minimize duplicative testing. The FDA has also issued a number of guidance documents outlining its approach to the review and approval of biosimilars, including guidance documents on the demonstration of interchangeability and the licensure of biosimilar and interchangeable products for fewer than all of the reference product's licensed conditions of use.

Biosimilarity, which requires that the biological product be highly similar to the reference product notwithstanding minor differences in clinically inactive components and that there be no clinically meaningful differences between the product and the reference product in terms of safety, purity and potency, must be shown through analytical studies, animal studies and a clinical trial or trials, absent a waiver from the FDA. There further must be no difference between the reference product and a biosimilar in terms of mechanism of action, conditions of use, route of administration, dosage form, and strength. Interchangeability requires that a biological product be biosimilar to the reference product and that the product can be expected to produce the same clinical results as the reference product in any given patient and, for products administered multiple times to an individual, that the product and the reference product may be alternated or switched after one has been previously administered without increasing safety risks or risks of diminished efficacy relative to exclusive use of the reference biological product without such alternation or switch.

A reference biological product is granted twelve years of exclusivity from the time of first licensure of the product, during which time the FDA will not approve a biosimilar product. Moreover, the FDA will not accept an application for a biosimilar or interchangeable product based on the reference biological product until four years after the date of first licensure of the reference product. "First licensure" typically means the initial date the particular product at issue was licensed in the U.S. Date of first licensure does not include the date of licensure of (and a new period of exclusivity is not available for) a biological product if the licensure is for a supplement for the biological product or for a subsequent application by the same sponsor or manufacturer of the biological product (or licensor, predecessor in interest, or other related entity) for a change (not including a modification to the structure of the biological product) that results in a new indication, route of administration, dosing schedule, dosage form, delivery system, delivery device or strength, or for a modification to the structure of the biological product that does not result in a change in safety, purity, or potency. Therefore, one must determine whether a new product includes a modification to the structure of a previously licensed product that results in a change in safety, purity, or potency to assess whether the licensure of the new product is a first licensure that triggers its own period of exclusivity. Whether a subsequent application, if approved, warrants exclusivity as the "first licensure" of a biological product is determined on a

case-by-case basis with data submitted by the sponsor. The BPCI Act also created certain exclusivity periods for biosimilars approved as interchangeable products.

In addition to the above exclusivity periods, the BPCI Act also includes provisions to enable the settlement of potential patent disputes. The biosimilar product sponsor and reference product sponsor may exchange patent and product information to determine whether there should be a patent challenge. The reference product sponsor may be able to bring a patent infringement suit and injunction proceedings against the biosimilar product sponsor. The biosimilar applicant may also be able to bring an action for declaratory judgment concerning the patent.

The FDA maintains a publicly available online database of licensed biological products, which is commonly referred to as the “Purple Book.” The Purple Book lists product names, dates of licensure, and applicable periods of exclusivity. Further, pursuant to an enacted statute to enable biological product patent transparency, the reference product sponsor must provide patent information and patent expiry dates to the FDA following the exchange of patent information between biosimilar and reference product sponsors. This information is then published in the Purple Book.

The Hatch-Waxman Act

Section 505 of the FDCA describes three types of marketing applications that may be submitted to the FDA to request marketing authorization for a new drug. A Section 505(b)(1) NDA is an application that contains full reports of investigations of safety and efficacy. A 505(b)(2) NDA is an application that contains full reports of investigations of safety and efficacy but where at least some of the information required for approval comes from investigations that were not conducted by or for the applicant and for which the applicant has not obtained a right of reference or use from the person by or for whom the investigations were conducted. This regulatory pathway enables the applicant to rely, in part, on the FDA’s prior findings of safety and efficacy for an existing product, or published literature, in support of its application. Section 505(j) establishes an abbreviated approval process for a generic version of approved drug products through the submission of an Abbreviated New Drug Application (“ANDA”). An ANDA provides for marketing of a generic drug product that has the same active ingredients, dosage form, strength, route of administration, labeling, performance characteristics and intended use to a previously approved product. ANDAs are termed “abbreviated” because they are generally not required to include preclinical (animal) and clinical (human) data to establish safety and efficacy. Instead, generic applicants must scientifically demonstrate that their product is bioequivalent to, or performs in the same manner as, the innovator drug through in vitro, in vivo, or other testing. The generic version must deliver the same amount of active ingredients to the site of action in the same amount of time as the innovator drug and can often be substituted by pharmacists under prescriptions written for the reference listed drug. In seeking approval for a drug through an NDA, applicants are required to list with the FDA each patent with claims that cover the applicant’s drug or a method of using the drug. Upon approval of a drug, each of the patents listed in the application for the drug is then published in the FDA’s Orange Book. Drugs listed in the Orange Book can, in turn, be cited by potential competitors in support of approval of an ANDA or 505(b)(2) NDA. In an effort to clarify which patents must be listed in the Orange Book, in January 2021, Congress passed the Orange Book Transparency Act of 2020, which largely codifies FDA’s existing practices into the FDCA.

Upon submission of an ANDA or a 505(b)(2) NDA, an applicant must certify to the FDA that (1) no patent information has been submitted to the FDA; (2) such patent has expired; (3) the date on which such patent expires; or (4) such patent is invalid or will not be infringed upon by the manufacture, use or sale of the drug product for which the application is submitted. The applicant may also elect to submit a “section viii” statement certifying that its proposed label does not contain (or carves out) any language regarding the patented method-of-use rather than certify to a listed method-of-use patent. Generally, the ANDA or 505(b)(2) NDA cannot be approved until all listed patents have expired, except where the ANDA or 505(b)(2) NDA applicant challenges a listed patent through the last type of certification, also known as a paragraph IV certification. If the applicant does not challenge the listed patents or does not indicate that it is not seeking approval of a patented method of use, the ANDA or 505(b)(2) NDA application approval will not be made effective until all of the listed patents claiming the referenced product have expired.

If the ANDA or 505(b)(2) NDA applicant has provided a paragraph IV certification to the FDA, the applicant must send notice of the certification to the NDA and patent holders. The NDA and patent holders may then initiate a patent infringement lawsuit in response to the notice of the paragraph IV certification, in which case the FDA may not make an approval effective until the earlier of 30 months from the patent or application owner’s receipt of the notice of the paragraph IV certification, the expiration of the patent, when the infringement case concerning each such patent is favorably decided in the applicant’s favor or settled, or such shorter or longer period as may be ordered by a court. This prohibition is generally referred to as the 30-month stay. In instances where an ANDA or 505(b)(2) NDA applicant files a paragraph IV certification, the NDA holder or patent owner(s) regularly take action to trigger the 30-month stay. Thus, approval of an ANDA or 505(b)(2) NDA could be delayed for a significant period of time depending on the patent certification the applicant makes and the reference drug sponsor’s decision to initiate patent litigation.

The Hatch-Waxman Act establishes periods of regulatory exclusivity for certain approved drug products, during which the FDA cannot accept an ANDA or 505(b)(2) application. The holder of an NDA, including a 505(b)(2) NDA, may obtain five years of

exclusivity upon approval of a new drug containing new chemical entities (“NCEs”). A drug is a new chemical entity if the FDA has not previously approved any other new drug containing the same active moiety, which is the molecule or ion responsible for the therapeutic activity of the drug substance. During the exclusivity period, the FDA may not accept for review an ANDA or a 505(b)(2) NDA submitted by another company that contains the previously approved active moiety. However, an ANDA or 505(b)(2) NDA may be submitted after four years if it contains a certification of patent invalidity or non-infringement.

The Hatch-Waxman Act also provides three years of marketing exclusivity to the holder of an NDA (including a 505(b)(2) NDA) for a particular condition of approval, or change to a marketed product, such as a new indication or formulation for a previously approved product, if one or more new clinical studies (other than bioavailability or bioequivalence studies) was essential to the approval of the application and was conducted/sponsored by the applicant. This three-year exclusivity period protects against the FDA making an ANDA and 505(b)(2) NDA approval effective for the condition of the new drug’s approval. As a general matter, the three-year exclusivity does not prohibit the FDA from approving ANDAs or 505(b)(2) NDAs for generic or modified versions of the original, unmodified drug product. Five-year and three-year exclusivity will not delay the submission or approval of a full NDA; however, an applicant submitting a full NDA would be required to conduct or obtain a right of reference to all of the preclinical studies and adequate and well-controlled clinical trials necessary to demonstrate safety and efficacy.

Recently, Congress, the Administration, and administrative agencies have taken certain measures to increase drug and biologic competition by facilitating the entry of generic and biosimilar products to the market. For example, measures have been proposed and implemented to facilitate product importation. Congress also passed a bill requiring sponsors of NDA and BLA approved products to provide sufficient quantities of drug product on commercially reasonable market-based terms to entities developing generic, biosimilar, and 505(b)(2) products. This bill also included provisions on shared and individual REMS for generic drug products.

Patent Term Restoration

If approved, drug and biologic products may also be eligible for periods of U.S. patent term restoration. If granted, patent term restoration extends the patent life of a single unexpired patent that has not previously been extended, for a maximum of five years. The total patent life of the product with the extension also cannot exceed fourteen years from the product’s approval date. Subject to the prior limitations, the period of the extension is calculated by adding half of the time from the effective date of an IND to the initial submission of a marketing application, and all of the time between the submission of the marketing application and its approval. This period may also be reduced by any time that the applicant did not act with due diligence.

Coverage and Reimbursement

Successful commercialization of new drug products depends in part on the extent to which reimbursement for those drug products will be available from federal and state health care programs, private health insurers, and other organizations. Government authorities and third-party payors, such as private health insurers and health maintenance organizations, decide which drug products they will pay for and establish reimbursement levels. The availability and extent of insurance reimbursement by governmental and private payors is essential for most patients to be able to afford a drug product. Sales of drug products depend substantially, both domestically and abroad, on the extent to which the costs of drugs products are paid for by health maintenance, managed care, pharmacy benefit and similar healthcare management organizations, or reimbursed by federal and state health care programs, private health coverage insurers and other third-party payors.

A primary trend in the U.S. healthcare industry and elsewhere is cost containment. Government authorities and third-party payors have attempted to control costs by limiting coverage and the amount of reimbursement for particular drug products and requiring payment of manufacturer rebates. In many countries, the prices of drug products are subject to varying price control mechanisms as part of national health systems. In general, the prices of drug products under such systems are substantially lower than in the U.S. Certain countries allow companies to fix their own prices for drug products initially, but either assess cost-benefit subsequently or monitor and control company profits. Accordingly, in markets outside the U.S., the reimbursement for drug products may be reduced compared with the U.S.

In the U.S., the principal decisions about reimbursement for new drug products under federal healthcare plans are typically made by the Centers for Medicare & Medicaid Services (“CMS”), an agency within the Department of Health and Human Services. Based in part on existing reimbursement methodologies tracking drug manufacturing costs, CMS decides whether and to what extent a new drug product will be covered and reimbursed under Medicare, and private payors tend to follow CMS to a substantial degree. However, no uniform policy of coverage and reimbursement for drug products exists among third-party payors. New products may not be covered, and coverage and reimbursement levels for drug products can differ significantly from payor to payor.

The Medicare Prescription Drug, Improvement, and Modernization Act of 2003 (“MMA”) established the Medicare Part D program to provide a voluntary prescription drug benefit to Medicare beneficiaries. Under Part D, Medicare beneficiaries may enroll in

prescription drug plans offered by private entities that provide coverage of outpatient prescription drugs. Unlike Medicare Parts A and B, Part D coverage is not standardized. While all Medicare drug plans must give at least a standard level of coverage set by Medicare, Part D prescription drug plan sponsors are not required to pay for all covered Part D drugs, and each drug plan can develop its own drug formulary that identifies which drugs it will cover and at what tier or level. However, Part D prescription drug formularies must include drugs within each therapeutic category and class of covered Part D drugs, though not necessarily all the drugs in each category or class. Any formulary used by a Part D prescription drug plan must be developed and reviewed by a pharmacy and therapeutic committee. Government payment for some of the costs of prescription drugs may increase demand for drugs for which we obtain marketing approval. Any negotiated prices for any of our products covered by a Part D prescription drug plan will likely be lower than the prices we might otherwise obtain, and, in addition, we may be required to pay significant Part D coverage gap discounts on certain Part D utilization. Moreover, while the MMA applies only to drug benefits for Medicare beneficiaries, private payors often follow Medicare coverage policy and payment limitations in setting their own payment rates. Any reduction in payment that results from the MMA may result in a similar reduction in payments from non-governmental payors.

For a drug product to receive federal reimbursement under Medicaid or Medicare Part B programs or to be sold directly to U.S. government agencies, the manufacturer must extend discounts to entities eligible to participate in the 340B drug pricing program. The required 340B discount on a given product is calculated based on the average manufacturer price (“AMP”) and Medicaid unit rebate amounts reported by the manufacturer. As of 2010, the ACA expanded the types of entities eligible to receive discounted 340B pricing, although under the current state of the law these newly eligible entities (with the exception of children’s hospitals) are not eligible to receive discounted 340B pricing on orphan drugs. As 340B drug pricing is determined based on AMP and Medicaid unit rebate data, revisions to the Medicaid rebate formula and AMP definition described above could cause the required 340B discount to increase. Moreover, multiple federal enactments have established initiatives to compare the effectiveness of different treatments for the same illness. Although the results of the comparative effectiveness studies are not intended to mandate coverage policies for public or private payors, it is not clear what effect, if any, the research will have on the sales of our drug candidates, if any such drug or the condition that they are intended to treat are the subject of a trial. It is also possible that comparative effectiveness research demonstrating benefits in a competitor’s drug could adversely affect the sales of our drug candidate. If third-party payors do not consider our drugs to be cost-effective compared to other available therapies, they may not cover our drugs after approval as a benefit under their plans or, if they do, the level of payment may not be sufficient to allow us to sell our drugs on a profitable basis.

For a drug product to receive federal reimbursement under the Medicaid program, the Veterans Health Care Act of 1992 requires, as a condition of payment by certain federal agencies and the Medicaid program, that manufacturers of “covered drugs” (including all drugs approved under an NDA) enter into a Master Agreement and Federal Supply Schedule contract with the Department of Veterans Affairs through which their covered drugs must be offered for sale at a mandatory ceiling price calculated at a statutory discount to certain federal agencies, including the VA and Department of Defense.

In August 2022, Congress passed the Inflation Reduction Act of 2022, which includes prescription drug provisions that could have significant implications for our future drug development and sales. These laws, and future state and federal healthcare reform measures may be adopted in the future, any of which may result in additional reductions in Medicare and other healthcare funding and otherwise affect the prices we may obtain for any drugs for which we may obtain regulatory approval or the frequency with which any such drug is prescribed or used.

Outside of the U.S., the pricing of pharmaceutical products and medical devices is subject to governmental control in many countries. For example, in the European Union, pricing and reimbursement schemes vary widely from country to country. Some countries provide that products may be marketed only after a reimbursement price has been agreed. Some countries may require the completion of additional studies that compare the cost effectiveness of a particular drug to currently available drugs or so-called health technology assessments, in order to obtain reimbursement or pricing approval. Other countries may allow companies to fix their own prices for products, but monitor and control product volumes and issue guidance to physicians to limit prescriptions. Efforts to control prices and utilization of pharmaceutical products and medical devices will likely continue as countries attempt to manage healthcare expenditures.

Regulation of Companion Diagnostics/Delivery Devices

We believe that the success of certain of our drug candidates may depend, in part, on the development and commercialization of a companion diagnostic. Companion diagnostics are in vitro diagnostic devices that provide information that is essential for the safe and effective use of a corresponding therapeutic. The use of a companion diagnostic is stipulated in the labeling of both the diagnostic device and the corresponding therapeutic. Companion diagnostics may identify patients who are most likely to benefit from a particular therapeutic product; identify patients likely to be at increased risk for serious side effects as a result of treatment with a particular therapeutic product; or monitor response to treatment with a particular therapeutic product for the purpose of adjusting treatment to achieve improved safety or effectiveness. Companion diagnostics are regulated as medical devices by the FDA. As noted in the “Regulation of In Vitro (“IVD”) Diagnostics and Medical Devices” section above, the FDCA and its implementing regulations govern

the development, testing, manufacturing, labeling, advertising, marketing and distribution, and market surveillance of medical devices which includes companion diagnostics. Unless exempt, companion diagnostics are subject to FDA premarket review before commercialization. Companion diagnostics are generally subject to the 510(k) or PMA regulatory pathways but where appropriate, can be authorized through the De Novo process.

On August 6, 2014, the FDA issued a final guidance document addressing the development and approval process for “In Vitro Companion Diagnostic Devices.” According to the guidance document, for therapeutic products that depend on the use of a diagnostic test and where the diagnostic device is essential for the safe and effective use of the corresponding therapeutic product, the premarket application for the companion diagnostic device should be developed and approved or cleared via a medical device regulatory pathway contemporaneously with the therapeutic, although the FDA recognizes that there may be cases when contemporaneous development may not be possible. However, in cases where a drug cannot be used safely or effectively without the companion diagnostic, the FDA’s guidance indicates it will generally not approve the drug without the approval or clearance of the diagnostic device. The FDA also issued a draft guidance in July 2016 setting forth the principles for co-development of an in vitro companion diagnostic device with a therapeutic product. The draft guidance describes principles to guide the development and contemporaneous marketing authorization for the therapeutic product and its corresponding in vitro companion diagnostic. As noted in the “Regulation of In Vitro (“IVD”) Diagnostics and Medical Devices” section above, the companion diagnostic device is subject to FDA’s general controls including the QSR, facility registration, device listing, reporting of, adverse events, and reporting of corrections and removals. As a device manufacturer, companion diagnostic makers are subject to periodic FDA inspections. As noted in the “Regulation of In Vitro (“IVD”) Diagnostics and Medical Devices” section above, noncompliance with the FDCA and its implementing regulation can subject a manufacturer to enforcement including administrative actions, civil penalties, and criminal penalties.

To the extent a therapeutic drug or biologic product requires a delivery device (e.g., syringe), the delivery device will also be regulated as a medical device. Unless exempt, delivery devices are subject to FDA premarket review before commercialization as outlined in the “Regulation of In Vitro (“IVD”) Diagnostics and Medical Devices” section above. In addition to the traditional medical device regulatory pathway, the delivery device could also be authorized as a combination product with the therapeutic drug or biologic product. When authorized as a combination product, medical device quality system and adverse event reporting requirements still apply to the device portion of the combination product. However, the combination product manufacturer may be able to streamline some of these obligations in accordance with 21 C.F.R. Part 4.

Other Laws—Environmental, Occupational Safety and Health

We may be subject to numerous environmental, health and safety laws and regulations, including those governing laboratory procedures and the handling, use, storage, treatment and disposal of hazardous materials and wastes. From time to time and in the future, our operations may involve the use of hazardous and flammable materials, including chemicals and biological materials, and may also produce hazardous waste products. Even if we contract with third parties for the disposal of these materials and waste products, we cannot completely eliminate the risk of contamination or injury resulting from these materials. In the event of contamination or injury resulting from the use or disposal of our hazardous materials, we could be held liable for any resulting damages, and any liability could exceed our resources. We also could incur significant costs associated with civil or criminal fines and penalties for failure to comply with such laws and regulations. We maintain workers’ compensation insurance to cover us for costs and expenses we may incur due to injuries to our employees, but this insurance may not provide adequate coverage against potential liabilities. However, we do not maintain insurance for environmental liability or toxic tort claims that may be asserted against us. In addition, we may incur substantial costs in order to comply with current or future environmental, health and safety laws and regulations. Current or future environmental laws and regulations may impair our research, development or production efforts. In addition, failure to comply with these laws and regulations may result in substantial fines, penalties or other sanctions.

Human Capital Resources

We believe that our talent is our competitive edge in the global marketplace. We strive to attract and retain a uniquely talented and high performing workforce across all aspects of diversity and aim to foster a team-first culture of innovation.

Workforce

As of March 31, 2023, we employed approximately 816 employees worldwide, of which approximately 769 were full-time employees and approximately 90% were U.S.-based employees.

Diversity, Equity, and Inclusion (DE&I)

We strive to provide opportunity for all: our employees, our community, and our customers. We believe in welcoming and embracing various cultures and backgrounds, as we recognize the value of employing a workforce of unique and varying viewpoints

and experiences. Currently, 53% of our U.S. workforce are women. Of the nine members of our Board of Directors, four identify as people of color and three identify as female.

Our DE&I strategy is focused on advancing product inclusivity and employee experience. Our products, content, and experiences are designed to ensure the inclusivity of our customers' diverse identities and needs. We also seek to foster a safe space for individuals to discuss issues that impact their shared community through employee affinity groups. In addition, in fiscal year 2023, we continued our focus on supplier diversity by developing and implementing a supplier diversity survey to be utilized when sourcing new vendors for the organization.

We aim to grow, learn, and shape our approach to DE&I for the betterment of our workforce and the communities we serve. To that end, we will continue to ensure we are creating an environment that welcomes uncomfortable conversations about issues that impact our workforce, customers and the broader community.

Competitive Compensation and Benefits

We provide all benefit-eligible employees working at least 20 hours per week with a comprehensive benefit and compensation package, which includes:

- Medical, dental, vision care, health savings account plus employer contribution, life insurance plus accidental death and dismemberment (“+ADD”) coverage, voluntary life + ADD, short-term and long-term disability, a retirement plan with Company match, and a discount employee stock purchase program;
- Healthcare and dependent care flexible spending accounts, commuter benefits plus transit subsidy;
- Discounted gym membership, work-from-home internet stipend plus a one-time work from home office equipment reimbursement, and pet insurance;
- Employee assistance program, precision mental healthcare with free counseling sessions and unlimited digital mental health support, tuition reimbursement and student loan assistance, medical coverage for same and opposite gender domestic partners, company and floating holidays, paid volunteer time off and paid time off;
- Reimbursement of expenses for surrogacy, adoption and infertility;
- Complimentary resource for personal legal questions and personal legal document generation and review, personal financial wellness platform and access to fiduciary financial advisors; and
- Eight weeks of fully paid parental leave following birth, adoption, or surrogacy for both parents, plus eight weeks of additional leave for a birthing parent.

As a company, we offer postpartum and return-to-work assistance which includes on-site lactation rooms and flexible work hours. For nursing moms who travel for work, we provide reimbursement for the shipment of breast milk back to their homes. We also offer back-up child and elder care. We offer one week of company paid family leave for employees who need to care for a family member who has a serious health condition and provide additional 80 hours of sick leave for COVID-related illness.

We believe in investing into the health, well-being, and wellness of our employees. We provide complimentary health and fitness classes and host individual and team wellness challenges that incorporate mental, emotional, physical, and nutritional elements of a healthy lifestyle. We provide an online navigation and advocacy service to find the right care and deal with medical bills questions.

Talent Development

Employee development is considered to be a strategic priority. We support employee growth and development by offering a variety of benefits. Our focus areas at this time are on leadership development, career development, DE&I and supporting hybrid teams/leadership. Our flagship leadership program is for leaders at all levels (program, project, people, and/or team leaders), which provides employees to be able to lead from any seat. During the fiscal year ended March 31, 2023, over 15% of all employees participated in this 4-month cohort-based leadership program. We plan to continue to offer this program and support more employees through their leadership journey.

Other talent development benefits we offer are tuition reimbursement, department learning budgets and internal mentorship programs. Our company-wide BestYou@23andMe framework is a performance management framework designed to support and foster career advancement. BestYou@23andMe encompasses three areas:

- The What - job responsibilities, objectives and key results (OKRs), Goals, DE&I;
- The How - Core Values, DE&I, Team Behaviors; and
- Impact - for DE&I, on the Business, on the Company, for your citizenship.

Our objective is having a clear approach towards career development, programs/benefits allowing employees with healthier lives, and an ability to participate in the community celebrating individuality. Our talent development programs are designed to support a work environment where employees are empowered to promote their unique perspectives.

Available Information

Our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K and amendments to those reports filed or furnished to the SEC pursuant to Sections 13(a) or 15(d) of the Securities Exchange Act of 1934 are available, free of charge, on the SEC website at www.sec.gov and our Investor Relations website at <https://investors.23andme.com> as soon as reasonably practicable after we electronically file such materials with, or furnish them to, the SEC. We use our Investor Relations website as a means of disclosing material non-public information. Accordingly, investors should monitor our Investor Relations website, in addition to following our press releases, SEC filings and public conference calls and webcasts.

Our corporate governance materials, including our corporate governance guidelines, the charters of our audit and compensation committees, and our code of business conduct and ethics may also be found under the Investor Relations section of our website at <https://investors.23andme.com>. A copy of the corporate governance materials is also available upon written request. Additionally, our investor presentations are available under the Investor Relations section of our website at <https://investors.23andme.com>. These materials are available no later than the time they are presented at investor conferences. Except to the extent expressly stated otherwise, information contained on or accessible from our web site or any other web site is not incorporated by reference into this annual report on Form 10-K and should not be considered part of this report.

Item 1A. Risk Factors

Investing in our securities involves risks. Before you make a decision to buy our securities, in addition to the risks and uncertainties discussed above under “Cautionary Note Regarding Forward-Looking Statements,” you should carefully consider the specific risks set forth herein. If any of these risks actually occur, it may materially harm our business, financial condition, liquidity, and results of operations. As a result, the market price of our securities could decline, and you could lose all or part of your investment. Additionally, the risks and uncertainties described in this Form 10-K are not the only risks and uncertainties that we face. Additional risks and uncertainties not presently known to us or that we currently believe to be immaterial may become material and adversely affect our business.

Unless the context indicates otherwise, references in this “Risk Factors” section to the “Company,” “we,” “us,” “our,” and similar terms refer to 23andMe Holding Co., a Delaware corporation formerly known as VG Acquisition Corp., and its consolidated subsidiaries.

Summary of Principal Risk Factors

- The market for personal genetics products and services has experienced a recent overall decline. If this trend continues or worsens, it could adversely affect our business and results of operations.
- If our competitors receive further FDA marketing approval for in vitro diagnostic products, our business could be adversely affected.
- The telehealth market is immature and volatile, and if it does not develop, if it encounters negative publicity, or if the use of telehealth solutions does not continue to increase, then the growth of our business and our results of operation could be adversely affected.
- We rely on key sole suppliers to manufacture and perform services used by customers who purchase our PGS, which could adversely affect our ability to meet customer demand.
- If we are not able to maintain and enhance our brand, our ability to expand our customer base may be impaired and our business and operating results may be harmed.

- If our efforts to attract new customers and patients and engage existing customers and patients with enhanced products and services are unsuccessful or if such efforts are more costly than we expect, our business may be harmed.
- Revenue derived from our kit sales is dependent on seasonal holiday demand and the timing of Amazon Prime Day, which could lead to significant quarterly fluctuations in revenue and results of operations.
- Our pricing strategies may not meet customers' price expectations or may adversely affect our revenue.
- We depend on a number of other companies to perform functions critical to our ability to operate our platform and generate revenue from patients.
- If we are unable to attract and retain high quality healthcare providers for our patients, our business, financial condition, and results of operations may be materially and adversely affected.
- If the number of our customers consenting to participate in our research programs declines or fails to grow, our revenue may be adversely affected, and our database may become less effective.
- Our focus on using our genetics-powered platform to discover targets with therapeutic potential may not result in the discovery of commercially viable drug targets for us or our collaborators.
- Media reports on consumer data privacy and security concerns and the use of genetic information may decrease the overall consumer demand for personal genetic products and services, including ours. Some countries prohibit or restrict genetic testing being sold in those countries.
- We do not have any experience in successful drug development or commercialization and our failure to execute on successful drug development or commercialization would adversely affect our business and results of operations.
- If we fail to succeed in our drug development efforts, or to develop and commercialize additional products and services, our ability to expand our business and achieve our strategic objectives would be impaired.
- Our Therapeutics business faces substantial competition, which may result in others discovering, developing, or commercializing drugs before or more successfully than we can.
- We cannot give any assurance that any of our drugs will receive regulatory approval, which is necessary before they can be commercialized.
- Failure to adequately design a trial, or incorrect assumptions about the design of the trial, could adversely affect our ability to initiate the trial, enroll patients, complete the trial, or obtain regulatory approval.
- We will need additional capital, and we cannot be sure that additional financing will be available on acceptable terms or at all.
- We depend on the continued services and performance of our highly qualified key personnel, and we may not be able to attract or retain qualified scientists and other specialized individuals in the future due to the competition for qualified personnel among life science and technology businesses.
- Economic uncertainty or downturns, particularly affecting the markets and industries in which we operate, and on discretionary consumer spending could adversely affect our business, financial condition, and results of operations.
- If we, GSK, and any future collaborators are unable to successfully complete clinical development, obtain regulatory approval for, or commercialize any drugs, or experience delays in doing so, our business may be materially harmed.
- GSK and any other potential drug discovery collaborators will have significant discretion in determining when to make announcements, if any, about the status of our collaborations, which may cause the price of our Class A common stock to decline as a result of announcements of unexpected clinical trial results or data relative to our research and development programs.
- Following the expiration of the discovery period under the GSK Agreement in July 2023, we intend to establish other collaborations, and, if we are not able to obtain new collaboration partners, or to negotiate commercially reasonable terms, we may be required to modify our therapeutics development strategies and goals.
- Our collaborators may not achieve projected discovery and development milestones and other anticipated key events in the expected timelines or at all, which could have an adverse impact on our business.
- Our products and services are subject to extensive regulation and compliance with existing or future regulations could result in unanticipated expenses, or limit our ability to offer our products and services.
- We will face legal, reputational, and financial risks if we fail to protect our customer and patient data from security breaches or cyberattacks.
- Our ability to meet demand in the Amazon retail channel is dependent upon Amazon's stocking policies.
- If we are unable to protect our intellectual property ("IP"), the value of our brands and other intangible assets may be diminished, we may be unable to prevent others from using our inventions and competing with us, we may be unable to prevent others from learning our company secrets, and our business may be adversely affected.

- We may be subject to claims challenging the inventorship or ownership of our patents and other IP.
- If any IP rights are invalidated, lost, or expire we will no longer be able to prevent others from using that IP, which could adversely affect business.
- The IP rights we rely upon to protect our products and services may not be adequate, which could enable others to use our technology and reduce our ability to compete.
- The industry is subject to rapidly changing technology which could make the products and services we are commercializing or developing obsolete unless we continue to develop or utilize new technologies and pursue new market opportunities.
- Our quarterly operating results may fluctuate in the future. As a result, we may fail to meet or exceed the expectations of research analysts or investors, which could cause our stock price to decline.
- We have incurred significant losses since inception, we expect to incur losses in the future, and we may not be able to generate sufficient revenue to achieve and maintain profitability.
- We have incurred and will continue to incur significant costs as a result of being a public company.
- If we fail to maintain effective internal control over financial reporting or experience material weaknesses in the future, our ability to produce timely and accurate financial statements could be impaired, which may adversely affect our business.
- We are subject to changing law and regulations regarding regulatory matters, data privacy, corporate governance, and public disclosure that have increased our costs and the risk of non-compliance, which can be significant for serious breaches such as privacy breaches.
- We may face additional risks as a result of the dual class structure of our common stock, such as an increased concentration of voting control in the holders of our outstanding Class B common stock, including our Chief Executive Officer and Co-Founder.

Risks Related to Our Business

Consumer and Research Services Business Risks

The market for personal genetics products and services has experienced a recent overall decline, which corresponds with the recent and significant decreases in our revenues. If this trend continues or worsens, it could adversely affect our business and results of operations.

Our revenue model has historically been derived principally from customers who purchase our PGS services. For the fiscal years ended March 31, 2023, 2022, and 2021, PGS revenue accounted for 68%, 75%, and 81% of revenues, respectively. There is no assurance that our business model will be successful or that it will generate increased revenues or become profitable as a result of marketing our current PGS services or any future products or services. We may be forced to make significant changes to our anticipated pricing, sales and revenue model to compete with our competitors' offerings, and even if such changes are implemented, there is no guarantee that they will be successful. If the current market trend continues or worsens, or we are unable to adjust our approach to meet market demands, our revenues and results of operations will be adversely affected.

We operate in highly competitive markets, and competition in the personal genetics and telehealth markets present an ongoing threat to the success of our business.

With respect to our PGS business, the market continues to see new entrants with offerings similar to our PGS services. We believe that our ability to compete depends upon many factors both within and beyond our control, including the following:

- the size of our customer base;
- the timing and market acceptance of products and services, including the developments and enhancements to those products and services, offered by us or our competitors;
- customer service and support efforts;
- selling and marketing efforts;
- ease of use, performance, price and reliability of solutions developed either by us or our competitors; and
- our brand strength relative to our competitors.

We also face competition from other companies attempting to capitalize on the same, or similar, opportunities as it is, including from existing diagnostic, laboratory services and other companies entering the personal genetics market with new offerings such as direct access and/or consumer self-pay tests and genetic interpretation services. Some of our current and potential competitors have

longer operating histories and greater financial, technical, marketing, and other resources than we do. These factors may allow our competitors to respond more quickly or efficiently than it can to new or emerging technologies. These competitors may engage in more extensive research and development efforts, undertake more far-reaching marketing campaigns and adopt more aggressive pricing policies, which may allow them to build larger customer bases than we have. Our competitors may develop products or services that are similar to our products and services or that achieve greater market acceptance than our products and services. This could attract customers away from our services and reduce our market share.

Similarly, the markets for healthcare are intensely competitive, subject to rapid change, and significantly affected by new product and technological introductions and other market activities of industry participants. We compete directly not only with other established telehealth providers but also traditional healthcare providers and pharmacies. Our current competitors include traditional healthcare providers expanding into the telehealth market and incumbent telehealth providers, as well as new entrants into our market that are focused on direct-to-consumer healthcare. Our competitors include enterprise-focused companies that may enter the direct-to-consumer healthcare industry, as well as direct-to-consumer healthcare providers. Many of our current and potential competitors may have greater name and brand recognition, longer operating histories, and significantly greater resources than we do, and may be able to offer products and services similar to those offered on our platform at more attractive prices than we can.

Additionally, we believe that the COVID-19 pandemic introduced many new users to telehealth and further reinforced its benefits to potential competitors. We believe that this may drive additional industry consolidation or collaboration involving competitors that may create competitors with greater resources and access to potential patients. The COVID-19 pandemic has also caused various traditional healthcare providers to pursue telehealth options that can be paired with their in-person capabilities. These industry changes could better position our competitors to serve certain segments of our current or future markets, which could create additional price pressure. In light of these factors, even if our offerings are more effective than those of our competitors, current or potential patients may accept competitive solutions in lieu of purchasing from us.

If our competitors receive further FDA marketing approval for in vitro diagnostic products, our business could be adversely affected.

We were the first direct-to-consumer genetic testing company to include FDA-authorized genetic health risk, carrier status and pharmacogenetic reports. Our competitors had previously released products that were not cleared or approved by the FDA and required partnership with independent physicians, but in August 2020, one of our competitors received premarket notification, also called 510(k) clearance, for their saliva collection kit and one of their genetic health risk reports, and in December 2020 another competitor received a 510(k) clearance for one of their health risk reports. Following these FDA clearances, our competitors can now market those cleared reports directly to consumers rather than relying on clinician network partners. If our competitors receive further FDA clearance or approval, our business could be adversely affected.

The sizes of the markets and forecasts of market growth for the demand of our products and services, including our research services and other key potential success factors are based on a number of complex assumptions and estimates, and may be inaccurate.

We estimate annual total addressable markets and forecasts of market growth for our products and services. We have also developed a standard set of key performance indicators in order to enable us to assess the performance of our business in and across multiple markets, and to forecast future revenue. These estimates, forecasts and key performance indicators are based on a number of complex assumptions, internal and third-party estimates and other business data, including assumptions and estimates relating to our ability to generate revenue from the development of new workflows. While we believe that our assumptions and the data underlying our estimates and key performance indicators are reasonable, there are inherent challenges in measuring or forecasting such information. As a result, these assumptions and estimates may not be correct and the conditions supporting our assumptions or estimates may change at any time, thereby reducing the predictive accuracy of these underlying factors and indicators. Consequently, our estimates of the annual total addressable market and our forecasts of market growth and future revenue from our products and services, including our research services, may prove to be incorrect, and our key business metrics may not reflect our actual performance. For example, if the annual total addressable market or the potential market growth for our products and services is smaller than we have estimated or if the key business metrics we utilize to forecast revenue are inaccurate, it may impair our sales growth and have an adverse impact on our business, financial condition, results of operations and prospects.

The telehealth market is immature and volatile, and if it does not develop, if it encounters negative publicity, or if the use of telehealth solutions does not continue to increase, then the growth of our business and our results of operation could be adversely affected.

The telehealth market is relatively new and unproven, and it is uncertain whether it will achieve and sustain high levels of demand, consumer acceptance, and market adoption. The COVID-19 pandemic increased utilization of telehealth services, but it is uncertain

whether such increase in demand will continue. The success of our telehealth business will depend to a substantial extent on the willingness of our patients to use, and to increase the frequency and extent of their utilization of, our solution, as well as on our ability to demonstrate the value of telehealth to patients. Negative publicity concerning our telehealth services, or the telehealth market as a whole, could limit market acceptance of our solution. If our patients do not perceive the benefits of our services, then our market may develop more slowly than we expect or not at all. Similarly, individual and healthcare industry concerns or negative publicity regarding quality, efficacy, or patient confidentiality and privacy in the context of telehealth could limit market acceptance of our healthcare services. Further, to the extent our telehealth services or related medication prescription services involve or may in the future involve controlled substances, the Drug Enforcement Administration is considering rulemaking that may negatively impact our clinicians' ability to prescribe such controlled substances to patients. If any of these events occurs, it could have a material adverse effect on our business, financial condition, and results of operations.

We rely on key sole suppliers to manufacture and perform services used by customers who purchase our PGS. Our reliance on limited contracted manufacturing and supply chain capacity could adversely affect our ability to meet customer demand.

We do not have manufacturing capabilities and do not plan to develop such capacity in the foreseeable future. Accordingly, we rely on third-party suppliers to provide materials (such as our saliva collection kits, bead chips, reagents or other materials and equipment used in our laboratory operations) and services (such as our laboratory processing services). Currently, we rely on a sole supplier to manufacture our saliva collection kits used by customers who purchase our PGS. Change in the supplier or design of certain of the materials which we rely on, in particular the bead chip and saliva collection kit, could result in a requirement that we seek additional premarket review from the FDA before making such a change. We also are required to validate any new laboratory or laboratories in accordance with FDA standards prior to utilizing their services for our U.S. customers. We cannot be certain that we will be able to secure alternative laboratory processing services, materials and equipment, and bring such alternative materials and equipment on line and revalidate them without experiencing interruptions in our workflow, or that any alternative materials will meet our quality control and performance requirements of our contracted laboratory.

Although we maintain relationships with suppliers with the objective of ensuring that we have adequate supply for the delivery of our services, increases in demand for such items can result in shortages and higher costs. Our suppliers may not be able to meet our delivery schedules, we may lose a significant or sole supplier, a supplier may not be able to meet performance and quality specifications and we may not be able to purchase such items at a competitive cost. Further, we may experience shortages in certain items as a result of limited availability, increased demand, pandemics or other outbreaks of contagious diseases, weather conditions and natural disasters, as well as other factors outside of our control. Our freight costs may increase due to factors such as limited carrier availability, increased fuel costs, increased compliance costs associated with new or changing government regulations, pandemics or other outbreaks of contagious diseases and inflation. Higher prices for natural gas, propane, electricity and fuel also may increase our production and delivery costs. The prices charged for our products may not reflect changes in our packaging material, freight, tariff and energy costs at the time they occur, or at all.

In order for other parties to perform manufacturing and participate in our supply chain, we sometimes must transfer technology to the other party, which can be time consuming and may not be successfully accomplished without considerable cost and expense, or at all. We will have to depend on these other parties to perform effectively on a timely basis and to comply with regulatory requirements. If for any reason they are unable to do so, and as a result we are unable to manufacture and supply sufficient quantities of our products on acceptable terms, or if we should encounter delays or other difficulties with the third parties on which we rely for our supply chain, our business, prospects, operating results, and financial condition may be materially harmed.

Our business significantly depends upon the strength of our brands, and if we are not able to maintain and enhance our brand, our ability to expand our customer base may be impaired and our business and operating results may be harmed.

We believe that the brand identity that we have developed has significantly contributed to the success of our business. We also believe that maintaining and enhancing the "23andMe" and "Lemonaid" brands are a significant factor in expanding our customer base and current and future business opportunities. Maintaining and enhancing our brands may require us to make substantial investments and these investments may not be successful. If we fail to promote and maintain the "23andMe" and "Lemonaid" brands, or if we incur excessive expenses in this effort, our business, operating results and financial condition may be materially and adversely affected. We anticipate that, as our market becomes increasingly competitive, maintaining and enhancing our brands may become increasingly difficult and expensive.

We have a limited history introducing new products and services to our customers and patients. If our efforts to attract new customers and patients and engage existing customers and patients with enhanced products and services are unsuccessful or if such efforts are more costly than we expect, our business may be harmed.

Our success depends on our ability to attract new customers and patients and engage existing customers and patients in a cost-effective manner. To acquire and engage customers and patients, we must, among other things, promote and sustain our platform and provide high-quality products, user experiences, and service. If customers do not perceive our PGS to be reliable and of high quality, if we fail to introduce new and improved products and services, or if we introduce new products or services that are not favorably received by the market, we may not be able to attract or retain customers and patients.

For example, the increased growth of our subscription service, 23andMe+, depends upon how compelling this offering is to our customers. Many of our 23andMe+ subscribers may initially access the subscription service for a discount. While we strive to demonstrate the value of our subscription service to our customers, and encourage eligible customers to become paid subscribers of 23andMe+, these customers may not convert to a fully paid subscription to 23andMe+ after they take advantage of our promotions. Moreover, if we are unable to keep existing customers engaged, including by their participation in research and responses to questionnaires, our ability to grow our database and discover new insights about the relationship between genetics and disease will be compromised. If we are unable to attract new customers or engage existing customers, including as subscribers of 23andMe+, our revenue and our operating results may grow slower than expected or decline.

Our telehealth business provides patients with access to telehealth-based consultations with healthcare providers and prescription medication services. In order to attract new telehealth patients and members and grow our telehealth business, we need to continue expanding the scope of our products and services and enter into new categories that will provide access to consultation and treatment of additional conditions. It is uncertain whether any such offerings will achieve and sustain high levels of demand and market adoption. Unless we are able to attract new telehealth patients and members and retain existing patients, our business, financial condition, and results of operations may be harmed.

Our marketing efforts currently include various initiatives and consist primarily of digital marketing on a variety of social media channels, such as Facebook, search engine optimization on websites, such as Google, Bing, and Yahoo!, various branding strategies, and mobile “push” notifications and email. During the fiscal years ended March 31, 2023, 2022, and 2021, we incurred \$120.0 million, \$100.3 million, and \$43.2 million of sales and marketing expenses, representing 40%, 37%, and 18% of our revenue, respectively. We anticipate that sales and marketing expenses will continue to represent a significant percentage of our overall operating costs for the foreseeable future. We have historically acquired a significant number of our users through digital advertising on platforms and websites owned by Facebook and Google, which may terminate their agreements with us at any time. Our investments in sales and marketing may not effectively reach potential customers and/or patients, potential customers and/or patients may decide not to buy our products or services, or customer or patient spend for our products and services may not yield the intended return on investment, any of which could negatively affect our financial results.

Many factors, some of which are beyond our control, may reduce our ability to acquire, maintain and further engage with customers and patients, including those described in this “Risk Factors” section and the following:

- system updates to app stores and advertising platforms such as Facebook and Google, including adjustments to algorithms that may decrease user engagement or negatively affect our ability to reach a broad audience;
- consumers opting out of the collection of certain personal information, including opting out of cookies, for marketing purposes;
- consumers opting out of the receipt of promotional emails or text messages;
- federal and state laws governing the use of personal information, including healthcare or genetic data, in marketing to potential or existing customers and patients, and the regulation of the use of discounts, promotions, and other marketing strategies in the healthcare industry;
- changes in advertising platforms’ pricing, which could result in higher advertising costs;
- changes in digital advertising platforms’ policies, such as those of Facebook and Google, that may delay or prevent us from advertising through these channels, which could result in reduced traffic to and sales on our platform, or that may increase the cost of advertising through these channels;
- changes in search algorithms by search engines;
- inability of our email marketing messages to reach the intended recipients’ inbox;
- ineffectiveness of our marketing efforts and other spend to continue to acquire new customers and patients and maintain and increase engagement with existing customers and patients;
- decline in popularity of, or governmental restrictions on, social media platforms where we advertise;
- the development of new search engines or social media sites that reduce traffic on existing search engines and social media sites; and

- consumer behavior changes as a result of macroeconomic pressures in the United States and the global economy, such as rising interest rates, inflation, and recession fears.

In addition, we believe that many of our new customers and patients originate from word-of-mouth and other non-paid referrals from existing customers and patients, including purchases of kits for gift-giving, so we must ensure that our existing customers and patients remain loyal and continue to derive value from our service in order to continue receiving those referrals. If our efforts to satisfy our existing customers and patients are not successful, we may not be able to attract new customers and patients. Further, if our customer base does not continue to grow, we may be required to incur significantly higher marketing expenses than we currently anticipate in order to attract new customers and patients. A significant decline in our customer base would have an adverse effect on our business, financial condition and results of operations.

Revenue derived from our kit sales is dependent on seasonal holiday demand and the timing of Amazon Prime Day, which could lead to significant quarterly fluctuations in revenue and results of operations.

Our kit sales are dependent on seasonal holiday demand, as well as the timing of Amazon Prime Day, which has varied in recent years. We generate a significant amount of our PGS revenue during the fourth quarter of our fiscal year, due to seasonal holiday demand and to the fact that kits that are ordered during the holiday season (which occurs during the third quarter of our fiscal year) are recognized as revenue when the customer sends in their kit to the laboratory to be processed and genetic reports are delivered to the customer, which typically for holiday purchases tends to occur in the fourth fiscal quarter. For example, in fiscal 2023, 2022, and 2021, fourth quarter PGS revenue represented 35%, 36%, and 39% of our total PGS revenue, respectively. Our promotional activity is also higher in the third fiscal quarter, which may reduce gross margin during this period. Purchasing patterns of kit sales are also aligned with other gift-giving and family-oriented holidays such as Mother's Day and Father's Day.

This seasonality causes our operating results to vary considerably from quarter to quarter. Additionally, any decrease in sales or profitability during the fourth quarter of the fiscal year could have a disproportionately adverse effect on our results of operations, which could, in turn, cause the value of our Class A common stock to fluctuate or decrease. This seasonality also could become more pronounced and may cause our operating results to fluctuate more widely.

We also may experience an increase in lab processing times and costs associated with shipping orders due to freight surcharges due to peak capacity constraints and additional long-zone shipments necessary to ensure timely delivery for the holiday season. Such delays could lead to an inability to meet advertised estimated lab processing times, resulting in customer dissatisfaction or reputational damage. If too many customers access our website within a short period of time, we may experience system interruptions that make our website unavailable or prevent us from efficiently fulfilling orders, which may reduce the volume of kits sold. Also, third-party delivery and direct ship vendors may be unable to deliver merchandise on a timely basis.

Our ability to meet demand in the Amazon retail channel is dependent upon Amazon's stocking policies.

We offer for sale both the Health + Ancestry Service kit and the Ancestry Service kit through Amazon in the U.S., Canada, and the U.K. Demand for our PGS kits through Amazon varies considerably based upon seasonal holiday and other gift-giving and family-oriented holiday demand, as well as the timing of Amazon Prime Day.

Amazon's stocking policies restrict the total number of PGS kits available for shipment to Amazon customers. These policies, including the inventory cap, change frequently, and as a result, our inventory available for shipment through Amazon fluctuates. We may not be able to accurately predict the mix of Health + Ancestry Service kits and Ancestry Service kits to effectively meet demand for each service type by Amazon customers. We also may experience an increase in costs associated with expedited shipping or use of intermediaries to enable additional stock being made available through Amazon.

We have limited operating experience abroad and may be subject to increased business and economic risks that could impact our financial results.

Our PGS is available in the U.S., Canada, the U.K., and in certain other markets globally, and our telehealth services are available in all 50 states, the District of Columbia, and the U.K. We plan to continue to pursue international expansion of our business operations and we may expand our offering in existing international markets or enter new international markets where we have limited or no experience in marketing, selling and deploying our product and services. If we fail to deploy or manage our operations in these countries successfully, our business and operations may suffer. In addition, we are subject to a variety of risks inherent in doing business internationally, including:

- policies, social and/or economic instability;

- risks related to governmental regulations in foreign jurisdictions and unexpected changes in regulatory requirements and enforcement;
- fluctuations in currency exchange rates;
- higher levels of credit risk and payment fraud;
- enhanced difficulties of integrating any foreign acquisitions;
- burdens of complying with a variety of foreign laws;
- reduced protection for IP rights in some countries;
- difficulties in staffing and managing global operations and the increased travel, infrastructure and legal compliance costs associated with multiple international locations and subsidiaries;
- different regulations and practices with respect to employee/employer relationships, existence of workers' councils and labor unions, and other challenges caused by distance, language, and cultural differences, making it harder to do business in certain international jurisdictions;
- compliance with statutory equity requirements; and
- management of tax consequences and compliance.

If we are unable to manage the complexity of global operations successfully, our financial performance and operating results could suffer.

Our pricing strategies may not meet customers' price expectations or may adversely affect our revenues.

Our pricing strategies have had, and may continue to have, a significant impact on our revenue. From time to time, we offer discounted prices as a means of attracting customers. Such offers and discounts, however, may reduce our revenue and margins. In addition, our competitors' pricing and marketing strategies are beyond our control and can significantly affect the results of our pricing strategies. If our pricing strategies, which may evolve over time, fail to meet our customers' price expectations or fail to result in increased margins, or if we are unable to compete effectively with our competitors if they engage in aggressive pricing strategies or other competitive activities, it could have a material adverse effect on our business.

We depend on our relationships with the PMCs, which we do not own, to provide telehealth consultation services, and our business could be adversely affected if those relationships were disrupted.

In certain jurisdictions, the corporate practice of medicine doctrine generally prohibits non-physicians from practicing medicine, including by employing physicians to provide clinical services, directing the clinical practice of physicians, or holding an ownership interest in an entity that employs or contracts with physicians. Some states have similar doctrines with respect to other professional licensure categories, including behavioral health services and providers. Other practices, such as professionals splitting their professional fees with a non-professional, are also prohibited in some jurisdictions. Many states also limit the extent to which nurse practitioners can practice independently and require that they practice under the supervision of or in collaboration with a supervising physician.

Through our platform, our patients gain access to one or more licensed healthcare providers for telehealth consultations. These providers are employed by or contracted with PMCs, which are independent professional entities owned by licensed physicians and that engage licensed healthcare professionals to provide telehealth consultations and related services, including applicable physician supervision of nurse practitioners. We enter into certain contractual arrangements with the PMCs and their provider owners, including an administrative services agreement, with each PMC for the exclusive provision by us of non-clinical services and support for the PMCs. While we expect that these relationships with the PMCs will continue, we cannot guarantee that they will. We believe that our arrangements with the PMCs have been structured to comply with applicable law and allow the healthcare providers the ability to maintain exclusive authority regarding the provision of clinical healthcare services (including consults that may lead to the writing of prescriptions), but there can be no assurance that government entities or courts would find our approach to be consistent with their interpretation of, and enforcement activities or initiatives related to, these laws and the corporate practice of medicine doctrine or similar prohibitions. If our arrangements are deemed to be inconsistent with any applicable government entity's interpretation of a law or regulation prohibiting the corporate practice of medicine, a fee-splitting law, or similar regulatory prohibitions, we would need to restructure the arrangements with the PMCs to create a compliant arrangement or terminate the arrangement, and we could face fines or other penalties in connection with such arrangements. A material change in our relationships with the PMCs, whether resulting from a dispute, a change in government regulation, or enforcement patterns, a determination of non-compliance, or the loss of these agreements or business relationships, could impair our ability to provide products and services to our patients and could have a material adverse effect on our business, financial condition, and results of operations. Violations of the prohibition on corporate practice of medicine doctrine, fee-splitting, or similar laws may impose penalties (e.g., fines or license suspension) on healthcare providers, which could discourage professionals from entering into arrangements with the PMCs and using our platform and could result in lawsuits by providers

against the PMCs and us. These laws and regulations are subject to change and enforcement based upon political, regulatory, and other influences. More restrictive treatment of healthcare professionals' relationships with non-professionals, such as our Company, in the healthcare services delivery context could have a material adverse effect on our business, financial condition, and results of operations.

We depend on a number of other companies to perform functions critical to our ability to operate our platform and generate revenue from patients.

We depend on the PMCs and their providers and our Affiliated Pharmacies to deliver quality healthcare consultations and pharmacy services through our platform. Any interruption in the availability of a sufficient number of providers or supply from our Affiliated Pharmacies could materially and adversely affect our ability to satisfy our patients and ensure they receive consultation services and prescription medication. If we were to lose our relationship with one or more of the PMCs, we cannot guarantee that we will be able to ensure access to a sufficient network of providers. Similarly, if we were to lose our relationship with one or more of our Affiliated Pharmacies, or are unable to obtain access for patients to pharmaceutical products through such pharmacies, we cannot guarantee that we will be able to find, perform due diligence on, and engage with one or more replacement partners in a timely manner. Our ability to service the needs of our customers could be materially impaired or interrupted in the event that our relationship with a PMC or Affiliated Pharmacy is terminated or otherwise impaired, which can happen due to a variety of circumstances, including, but not limited to, noncompliance on the part of the third-party entity. We also depend on cloud infrastructure providers, payment processors, and various others that allow our platform to function effectively and serve the needs of our patients. Difficulties with our significant partners and suppliers, regardless of the reason, could have a material adverse effect on our business.

If we are unable to attract and retain high quality healthcare providers for our patients, our business, financial condition, and results of operations may be materially and adversely affected.

Our success is dependent upon our continued ability to maintain and expand a network of qualified telehealth providers. If we are unable to recruit and retain board-certified and other qualified physicians, pharmacists, and other healthcare professionals, it would adversely affect our business, financial condition, and results of operations and ability to grow. In any particular market, providers could demand higher payments or take other actions that could result in higher medical costs, less attractive service for our patients, or difficulty meeting regulatory or accreditation requirements. The failure to maintain or to secure new cost-effective provider contracts may result in a loss of or inability to grow our membership base, higher costs, less attractive service for our patients, and/or difficulty in meeting regulatory or accreditation requirements, any of which could have a material adverse effect on our business, financial condition, and results of operations.

Any significant disruption in service on our website, mobile applications, or in our computer or logistics systems, whether due to a failure with our information technology systems or that of a third-party vendor, could harm our reputation and may result in a loss of customers.

Customers purchase our PGS and access its services through our website or our mobile applications. We also provide our telehealth services to patients and members through our website and mobile applications. Our reputation and ability to attract, retain and serve our customers, patients, and members is dependent upon the reliable performance of our website, mobile applications, network infrastructure and content delivery processes. Interruptions in any of these systems, whether due to system failures, computer viruses or physical or electronic break-ins, could affect the security or availability of our website or mobile applications, including our databases, and prevent our customers, patients, and members from accessing and using our services.

Our systems and operations are also vulnerable to damage or interruption from fire, flood, power loss, telecommunications failure, terrorist attacks, acts of war, electronic and physical break-ins, earthquake and similar events. For example, our headquarters are located in the San Francisco Bay Area which over the past several years has been subject to planned power outages to reduce the risk of wildfire, and these power outages can last for several days, which may limit or curtail certain operations. In the event of any catastrophic failure involving our website, we may be unable to serve our web traffic. In addition, our Lemonaid pharmacy fulfillment business is processed from a single location, which operations would be materially disrupted in the event any of these events were to occur at such facility. The occurrence of any of the foregoing risks could result in damage to our systems or could cause them to fail completely, and our insurance may not cover such risks or may be insufficient to compensate us for losses that may occur.

Additionally, our PGS business model is dependent on our ability to deliver kits to customers and have kits processed and returned to us. This requires coordination between our logistics providers and third-party shipping services. Operational disruptions may be caused by factors outside of our control such as hostilities, political unrest, terrorist attacks, natural disasters, pandemics and public health emergencies, affecting the geographies where our operations and customers are located. We may not be effective at preventing or mitigating the effects of such disruptions, particularly in the case of a catastrophic event. In addition, operational disruptions may occur during the holiday season, causing delays or failures in deliveries of PGS kits. Any such disruption may result in lost revenues, a

loss of customers and reputational damage, which would have an adverse effect on our business, results of operations and financial condition.

If we are unable to deliver a rewarding experience on mobile devices, whether through our mobile website or our mobile application, we may be unable to attract and retain customers and patients.

We believe that current and prospective customers and patients are increasingly interested in accessing our PGS and telehealth offerings through mobile devices. We maintain mobile websites and mobile applications for our PGS and telehealth offerings. Developing and supporting a mobile website and mobile application across multiple operating systems and devices requires substantial time and resources. Notwithstanding our efforts to develop mobile solutions, our mobile solutions may fail to meet the needs of our customers and patients or consistently provide rewarding customer and patient experiences. As a result, our ability to attract new customers and patients could be impaired and customers and patients we meet through our mobile websites or mobile applications may not choose to use our offerings at the same rate as customers and patients we meet through our websites.

As new mobile devices and mobile operating systems are released, we may encounter problems in developing or supporting our mobile websites or mobile applications for them. Our ability to offer commercially successful mobile websites and mobile applications could also be harmed by factors outside of our control, such as:

- increased costs to develop, distribute, or maintain our mobile websites or mobile applications;
- changes to the terms of service or requirements of a mobile application store that requires us to change our mobile application development or features in an adverse manner; and
- changes in mobile operating systems, such as Apple's iOS and Google's Android, that disproportionately affect us, degrade the functionality of our mobile websites or mobile applications, require that we make costly upgrades to our technology offerings, or give preferential treatment to competitors' websites or mobile applications.

If our customers or patients experience difficulty accessing or using, or if they elect not to use, our mobile websites or mobile applications, our business and results of operations may be adversely affected.

Use of social media and email may adversely affect our reputation or subject us to fines or other penalties.

We use social media and email as part of our approach to marketing. As laws and regulations rapidly evolve to govern the use of these channels, the failure by us, our employees or third parties acting on our behalf or at our direction to abide by applicable laws and regulations in the use of these channels could adversely affect our reputation or subject us to fines, other penalties, or lawsuits. Although we continue to update our practices as these laws change over time, we may be subject to lawsuits or investigations alleging our failure to comply with such laws. In addition, our employees or third parties acting on our behalf or at our direction may knowingly or inadvertently use social media, including through advertisements, in ways that could lead to the loss or infringement of IP, as well as the public disclosure of proprietary, confidential, or sensitive personal information of our business, employees, customers, patients, members, or others. Any such inappropriate use of social media and emails could also cause reputational damage.

Our customers may engage with us online through social media platforms, including Facebook, Instagram, TikTok, and Twitter, by providing feedback and public commentary about all aspects of our business. Information concerning us, whether accurate or not, may be posted on social media platforms at any time and may have a disproportionately adverse impact on our brand, reputation, or business. The harm may be immediate without affording us an opportunity for redress or correction and could have a material adverse effect on our business, results of operations, financial condition, and prospects.

Our success depends, in large part, on our ability to extend our presence in the personal genetics market, provide customers with a high level of service at a competitive price, achieve sufficient sales volume to realize economies of scale, and create innovative new features, products, and services to offer to our customers. Our failure to achieve any of these outcomes would adversely affect our business.

Our success depends, in large part, on our ability to extend our presence in the personal genetics market, provide customers with a high level of service at a competitive price, achieve sufficient sales volume to realize economies of scale, and create innovative new features, products and services to offer to our customers. The growth and expansion of our business and service offerings places a continuous significant strain on our management, operational, and financial resources. We are required to manage multiple relationships with various strategic suppliers, customers, and other third parties, and regulatory agencies and advisors. To effectively manage our growth, we must continue to implement and improve our operational, financial, and management information systems and to expand, train and manage our employee base. We further must continue to work to scale our own operations and our supplier operations to meet increases in demand for our services. In the event of further growth of our operations or in the number of our third-party relationships,

our supply, systems, procedures, or internal controls may not be adequate to support our operations and our management may not be able to manage any such growth effectively.

Our current and future expense levels are, to a large extent, fixed and are largely based on our investment plans and our estimates of future revenue. Because the timing and amount of revenue from our PGS is difficult to forecast when revenue does not meet our expectations, we may not be able to adjust our spending promptly or reduce our spending to levels commensurate with our revenue.

Even if we are able to successfully scale our infrastructure and operations, we cannot ensure that demand for our services will increase at levels consistent with the growth of our infrastructure. If we fail to generate demand commensurate with this growth or if we fail to scale our infrastructure sufficiently in advance to meet such demand, our business, financial condition and results of operations could be adversely affected, which may affect our ability to attract personnel or retain or motivate existing personnel.

Our Consumer and Research Services business relies on the continual growth of our database of information provided by customers who consent to participate in our research. If the number of our customers consenting to participate in our research programs declines or fails to grow, our research services revenue may be adversely affected, and our database may become less effective in facilitating our ability to identify new drug targets and to create new features, products, and services to offer to our customers.

Our Consumer and Research Services business is based on our ongoing analysis of the continually growing quantity of data in our proprietary database of genotypic and phenotypic information provided by customers who have consented to participate in our research programs. Over 80% of our customers have consented to participate in our research programs. If this percentage were to decline, or if consenting customers were to decide to opt out of our research programs, such that we cannot continue to grow our research database, the utility and value of our database would be adversely affected.

Our Consumer and Research Services business requires us to continue to improve and develop new data mining technologies and innovations in the use of genotypic and phenotypic data.

Our research services business uses our database and data mining tools and technologies to analyze the impacts of genetics on the sources and risks of disease, and to identify promising drug targets. If we do not continue to improve and develop new data mining technologies and innovations in our use of genotypic and phenotypic data, and to attract and retain skilled scientists to analyze our data, our business would be adversely affected.

Although we believe that our genetics-powered target discovery platform has the potential to identify more promising drugs than traditional methods, our focus on using our genetics-powered platform to discover targets with therapeutic potential may not result in the discovery of commercially viable drug targets for us or our collaborators.

Our scientific approach focuses on using our proprietary genotypic and phenotypic database to identify promising drug targets and predict their key properties without conducting time-consuming and expensive physical experiments. Our proprietary data mining techniques underpin, our target identification collaborations and our own internal target identification programs. While we believe that our research platform has been successful to date in identifying promising drug targets, we have no assurance that our early success will continue or lead to future success in identifying such targets.

Media reports have reported on consumer data privacy and security concerns and the use of genetic information accessed from other genetic databases by law enforcement and governmental agencies. These reports may decrease the overall consumer demand for personal genetic products and services, including ours.

We receive a high degree of media coverage. Unfavorable publicity or consumer perception of our product and service offerings, or the use of other genetic databases by third parties, including law enforcement, could adversely affect our reputation, resulting in a negative impact on the size of our customer base, the loyalty of our customers, the percentage of our customers that consent to participate in our research program, and our ability to attract new customers.

Therapeutics Business Risks

We expect to make significant investments in our continued efforts to develop new therapies as part of our Therapeutics business; these efforts may not be successful. We do not have any experience in successful drug development or commercialization and our failure to execute on successful drug development or commercialization would adversely affect our business and results of operations.

Drug development is expensive, takes years to complete, and can have uncertain outcomes. Failure can occur at any stage of development. We expect to incur significant expenses to advance our therapeutic development efforts, which may be unsuccessful. Developing new drugs is a speculative, risky, and highly competitive endeavor. Drugs which may initially show promise may fail to achieve the desired results in development and clinical studies and may ultimately not prove to be safe and effective or meet expectations for clinical utility. We may need to alter our offerings in development and repeat clinical studies before we develop a potentially successful drug. If, after development, a drug appears successful, we or our collaborators will still need to obtain FDA and other regulatory approvals before we can market it. The FDA's approval pathways are likely to involve significant time, as well as additional research, development, and clinical study expenditures. The FDA may not approve any drug we develop. Even if we develop a drug that receives regulatory approval, we or our collaborators would need to commit substantial resources to commercialize, sell and market it before it could be profitable, and the drug may never be commercially successful. The effectiveness and safety of a prospective product do not guarantee its market acceptance once it is launched. Educating patients, the medical community, and third-party payers about our product candidates could be a challenging task and may not yield desired results, despite significant investment of resources. Compared to conventional methods used by our competitors, our approach to educating the market may require more extensive resources. Any products that we ultimately bring to the market, if they receive marketing approval, may not gain market acceptance by physicians, patients, third-party payors, or others in the medical community. Additionally, development of any product or service may be disrupted or made less viable by the development of competing products or services. Because of the numerous risks and uncertainties associated with developing drugs, we are unable to predict whether or when our Therapeutics business may successfully commercialize a drug target.

New potential products and services may fail at any stage of development or commercialization and if we determine that any of our current or future products or services are unlikely to succeed, we may abandon them without any return on our investment. If we are unsuccessful in developing additional products or services, our potential for growth may be impaired.

Even if we or our drug discovery collaborators are able to develop drugs that demonstrate potential in preclinical or early-stage clinical studies, we or they may not succeed in demonstrating safety and efficacy of drugs in human clinical trials.

Even if we or our drug discovery collaborators are able to develop drugs that demonstrate potential in preclinical or early-stage clinical studies, we or they may not succeed in demonstrating safety and efficacy of drug product candidates in human clinical trials. Moreover, preclinical and clinical data are often susceptible to varying interpretations and analyses, and many companies that believed their drugs performed satisfactorily in preclinical studies and clinical trials have nonetheless failed to obtain marketing approval of their drug product candidates.

If we fail to succeed in our drug development efforts, or to develop and commercialize additional products and services, our ability to expand our business and achieve our strategic objectives would be impaired.

Our Therapeutics business is focused on leveraging our proprietary genotypic and phenotypic database in order to speed the development of successful new drugs. However, we may never succeed in developing a viable drug target. There are many lengthy and complex processes that all must yield successful results in order for us to ultimately succeed in developing and commercializing a drug. There are numerous stages of the drug development process, from initial target identification and validation, through various stages of rigorous preclinical research, to the selection of a lead drug product candidate that is suitable for human clinical testing. Once a drug product candidate is selected, there are several stages of clinical testing it must undergo, each dependent upon success in the prior stage. This is a long and costly process that will require significant time and resources and, if not successful, for any number of reasons that we cannot anticipate, would have an adverse effect on our business, financial condition and results of operations. In addition, external competition by other therapeutic companies can adversely affect our expected market share and revenues of our drugs.

Developing new products and services requires substantial technical, financial and human resources, whether or not any products or services are ultimately commercialized. We may pursue what we believe is a promising opportunity only to discover that certain of our risk or resource allocation decisions were incorrect or insufficient, or that individual products, services or our science in general has technology or biology risks that were previously unknown or underappreciated. In the event material decisions in any of these areas turn out to be incorrect or sub-optimal, we may experience a material adverse impact on our business and ability to fund our operations.

There are numerous risks associated with the development of our product candidate. These risks include the possibility that the compounds may be found ineffective or cause harmful side effects, may be difficult to manufacture in sufficient quantities for our development efforts and on a commercial scale, may be uneconomical to produce, and may not show the potential to compete effectively with existing or future alternatives. Additionally, political, judicial, and legislative changes, including those described elsewhere in this annual report, may make product development and marketing authorization more difficult.

Our Therapeutics business faces substantial competition, which may result in others discovering, developing, or commercializing drugs before or more successfully than we can.

We have not yet developed and commercialized, and may never successfully develop or commercialize, a drug target. Our Therapeutics business faces substantial competition from larger, more established pharmaceutical and biotechnology companies with marketed products that have been accepted by the medical community, patients, and third-party payors, as well as smaller companies in our industry that have successfully identified and developed drugs. Our ability to compete in this industry may be affected by the previous adoption of such products by the medical community, patients, and third-party payors.

We recognize that other companies, including larger pharmaceutical and biotechnology companies, may be developing or have plans to develop drugs and therapies that may compete with ours. Many of our competitors have substantially greater financial, technical, and human resources than we have. In addition, many of our competitors have significantly greater experience than we have in undertaking preclinical studies and human clinical trials of drugs, obtaining FDA and other regulatory approvals of drugs for use in healthcare and manufacturing, and marketing and selling approved drugs. Our competitors may discover, develop, or commercialize drugs or other novel technologies that are more effective, safer, or less costly than any that we are developing. Our competitors may also obtain FDA or other regulatory approval for their drugs more rapidly than we may obtain approval for any drug that we develop.

We anticipate that the competition with our drugs and therapies will be based on a number of factors, including product efficacy, safety, availability, and price. The timing of market introduction of any successful drug and competitive drugs will also affect competition among products. We expect the relative speed with which we can develop drugs, complete the clinical trials and approval processes, and supply commercial quantities of such drugs to the market to be important competitive factors. Our competitive position will also depend upon our ability to attract and retain qualified personnel, to obtain patent protection or otherwise develop proprietary products or processes, and protect our IP, and to secure sufficient capital resources for the period between target identification and commercial sales of the resulting drug product.

Our long-term success will depend, in part, upon our ability to develop, receive regulatory approval for, and commercialize our drugs.

In the U.S., our drugs and the activities associated with their development, including testing, manufacture, record-keeping, storage, and approval, are subject to comprehensive regulation by the FDA. Failure to obtain regulatory approval for a drug product candidate will prevent us from commercializing such target. We have limited resources for use in preparing, filing, and supporting the applications necessary to gain regulatory approvals and expect to rely on third-party contract research organizations and consultants to assist us in this process. The FDA and other comparable regulatory agencies in foreign countries impose substantial and rigorous requirements for the development, production, marketing authorization, and commercial introduction of drugs. These requirements include pre-clinical, laboratory, and clinical testing procedures, sampling activities, manufacturing development, clinical trials, and other costly and time-consuming procedures. In addition, regulation is not static, and regulatory authorities, including the FDA evolve in their interpretations and practices and may impose more stringent or different requirements than currently in effect, which may adversely affect our planned and ongoing development and/or our sales and marketing efforts.

Developing and obtaining regulatory approval for drugs is a lengthy process, often taking many years, is uncertain and is expensive. All of the drugs that we are developing, or may develop in the future, require research and development, pre-clinical studies, nonclinical testing, manufacturing development, and clinical trials prior to seeking regulatory approval and commencing commercial sales. In addition, we may need to address a number of technological challenges in order to complete development of our drugs. As a result, the development of drugs may take longer than anticipated or not be successful at all. There can be no assurance that the FDA will ever permit us to market any new drug that we develop. Even if regulatory approval is granted, such approval may include significant limitations on indicated uses, which could materially and adversely affect the prospects of any new therapeutic. In addition, new regulations could potentially negatively impact our therapeutic development and commercialization. For example, in August 2022, Congress passed the Inflation Reduction Act of 2022, which includes prescription drug provisions that could have significant implications on our future drug development and sales.

To market any drugs outside of the U.S., we must establish and comply with numerous and varying regulatory requirements of other countries regarding safety and effectiveness. Clinical trials conducted in one country may not be accepted by regulatory authorities in other countries, and regulatory approval in one country does not mean that regulatory approval will be obtained in any other country. Approval processes vary among countries and can involve additional drug testing and validation and additional or different administrative review periods from those in the U.S., including additional preclinical studies or clinical trials, as clinical trials conducted in one jurisdiction may not be accepted by regulatory authorities in other jurisdictions.

Seeking foreign regulatory approval could result in difficulties and costs and require additional nonclinical studies or clinical trials, which could be costly and time-consuming. Regulatory requirements can vary widely from country to country and could delay or prevent the introduction of our drugs in those countries. The foreign regulatory approval process may include all the risks associated with obtaining FDA approval. We do not have any drugs approved for sale in any jurisdiction, including international markets, and we do not have experience in obtaining regulatory approval in international markets. If we fail to comply with regulatory requirements in

international markets or to obtain and maintain required approvals, or if regulatory approval in international markets is delayed, our target market will be reduced and our ability to realize the full market potential of our drugs will be harmed.

Our drugs are in preclinical or clinical development, which is a lengthy and expensive process with uncertain outcomes and the potential for substantial delays. We cannot give any assurance that any of our drugs will receive regulatory approval, which is necessary before they can be commercialized.

Before obtaining marketing approval from regulatory authorities for the sale of our drugs, we must conduct extensive clinical trials to demonstrate the safety and efficacy of the drugs in humans. We have focused our collaborative efforts and significant financial resources on developing new drugs. We cannot be certain that any clinical trials will be conducted as planned or completed on schedule, if at all. Our inability to successfully complete preclinical and clinical development could result in additional costs to us and negatively impact our ability to generate revenue. Our future success is dependent on our ability to successfully develop, obtain regulatory approval for, and then successfully commercialize drugs. We currently have no drugs approved for sale and have not generated any revenue from sales of drugs, and we may never be able to develop or successfully commercialize a marketable drug. The results of early-stage clinical trials and preclinical studies may not be predictive of future results. Initial data in clinical trials may not be indicative of results obtained when these trials are completed or in later stage trials.

All our identified drugs require additional development, management of preclinical, clinical, and manufacturing activities, and regulatory approval. In addition, we will need to obtain adequate manufacturing supply, build a commercial organization, commence marketing efforts, and obtain reimbursement before we generate any significant revenue from commercial product sales, if ever. Many of our drugs are in early-stage research or translational phases of development, and the risk of failure for these programs is high. We cannot be certain that any of our drugs will be successful in clinical trials or receive regulatory approval. Further, our drugs may not receive regulatory approval even if they are successful in clinical trials. If we do not receive regulatory approvals for our drugs, we and our subsidiaries may not be able to continue operations.

If we encounter difficulties enrolling patients in clinical trials, our clinical development activities could be delayed or otherwise adversely affected.

Our ability to identify and qualify clinical trial participants in an expeditious manner is critical to the success of our clinical development activities. The timing of our clinical studies depends on the speed at which we can recruit trial participants to participate in testing our drugs. Delays in enrollment may result in increased costs or may affect the timing or outcome of the planned clinical trials, which could prevent completion of these trials and adversely affect our ability to advance the development of our drugs. If trial participants are unwilling to participate in our studies or drop out of our trials at unexpected rates, the timeline for recruiting trial participants, conducting studies, and obtaining regulatory approval of potential drugs may be delayed. We also may face delays in enrolling patients and conducting clinical studies, and may need to make adjustments to our development programs as a result of unforeseen global circumstances. Any delays could result in increased costs, delays in advancing our drug development, delays in testing the effectiveness of our drugs, or termination of the clinical studies altogether.

Use of our therapeutic drugs could be associated with side effects, adverse events, or other properties or safety risks, which could delay or halt their clinical development, prevent their regulatory approval, cause us to suspend or discontinue clinical trials, abandon a drug, limit their commercial potential, if approved, or result in other significant negative consequences that could severely harm our business, prospects, financial condition, and results of operations.

Undesirable or unacceptable side effects caused by our drugs, including drugs that are part of our collaboration with GSK, could cause us or regulatory authorities to interrupt, delay or halt clinical trials and could result in a more restrictive label or the delay or denial of regulatory approval by the FDA or other comparable foreign regulatory authorities. Results of clinical trials could reveal a high and unacceptable severity and prevalence of side effects or unexpected characteristics. Even if any of our current or future therapeutic drugs receive regulatory approval, it may fail to achieve the degree of market acceptance by physicians, patients, third-party payors and others in the medical community necessary for commercial success, in which case we may not generate significant revenues or become profitable.

Our use of third parties to manufacture and develop our drugs for preclinical studies and clinical trials may increase the risk that we will not have sufficient quantities of our drugs, products, or necessary quantities of such materials on time or at an acceptable cost or quality.

We have no experience in drug formulation or manufacturing and we lack the resources and expertise to formulate or manufacture our own therapeutic drugs internally. Therefore, we rely on third-party expertise to support us in this area. We entered into a contract with a third-party manufacturer to manufacture our drugs, and we intend to enter into contracts with third-party manufacturers to supply, store, and distribute supplies of our drugs for our clinical trials. If any of our drugs receives FDA approval, we expect to rely on

third-party contractors to manufacture our drugs. We have no current plans to build internal manufacturing capacity for any drug, and we have no long-term supply arrangements.

Our reliance on third-party manufacturers exposes us to potential risks, such as the following:

- We may be unable to contract with third-party manufacturers on acceptable terms, or at all, because the number of potential manufacturers is limited. Potential manufacturers will be subject to FDA compliance inspections and any new manufacturer would have to be qualified to produce our drugs;
- Our third-party manufacturers might be unable to formulate and manufacture our drugs in the volume and of the quality required to meet our clinical and commercial needs, if any;
- Our third-party manufacturers may face supply chain issues, including, but not limited to, as a result of global geopolitical events;
- Following submission of a marketing application, our third-party manufacturers may not be inspected on a timely basis by the applicable regulatory authorities;
- Our third-party manufacturers may not perform as agreed or may not remain in the contract manufacturing business for the time required to supply our clinical trials through completion or to successfully produce, store, and distribute our commercial products, if approved;
- Drug manufacturers are subject to ongoing periodic unannounced inspection by the FDA and other government agencies to ensure compliance with cGMP and other government regulations and corresponding foreign standards. We do not have direct control over third-party manufacturers' compliance with these regulations and standards, but we may ultimately be responsible for any of their failures;
- If any third-party manufacturer makes improvements in the manufacturing process for our products, we may not own, or may have to share, the IP rights to such improvements;
- Third-party manufacturers may not comply with the applicable regulatory requirements, which would expose us and them to potential enforcement actions; and
- A third-party manufacturer may gain knowledge from working with us that could be used to supply one of our competitors with a product that competes with ours.

If our contract manufacturers or other third parties fail to deliver our drugs for clinical investigation and, if approved, for commercial sale on a timely basis, with sufficient quality, and at commercially reasonable prices, we may be required to delay or suspend development and commercialization of our drugs. For example, our clinical trials must be conducted with product that complies with cGMP. Failure to comply may require us to repeat or conduct additional preclinical and/or clinical trials, which would increase our development costs and delay the regulatory approval process and our ability to generate and grow revenues. The FDA or other regulatory authorities may also determine that our third-party manufacturers do not maintain quality systems sufficient for product approval and/or may find that the manufacturing data and development does not meet FDA's approval standards.

In addition, any significant disruption in our supplier relationships could harm our business. If, for any reason, we need to replace any of our suppliers and manufacturers, we may not be able to do so on commercially favorable terms or may not be able to at all. We source key materials from third parties, either directly through agreements with suppliers or indirectly through our manufacturers who have agreements with suppliers. There are a small number of suppliers for certain capital equipment and key materials that are used to manufacture our drugs. Such suppliers may not sell these key materials to our manufacturers at the times we need them or on commercially reasonable terms. We do not have any control over the process or timing of the acquisition of these key materials by our manufacturers. Moreover, we currently do not have agreements for the commercial production of a number of these key materials which are used in the manufacture of our drugs. Any significant delay in the supply of a drug or its key materials for an ongoing clinical study could considerably delay completion of our clinical studies, drug testing and potential regulatory approval of our drugs. If our manufacturers or we are unable to purchase these key materials for our drugs after regulatory approval, the commercial launch of our drugs could be delayed or there could be a shortage in supply, which would impair our ability to generate revenues from the sale of our drugs, if approved.

Each of these risks, if realized, could delay or have other adverse impacts on our clinical trials and the approval and commercialization of our drugs, potentially resulting in higher costs, reduced revenues or both.

As an organization, we have limited experience designing or implementing clinical trials. Failure to adequately design a trial, or incorrect assumptions about the design of the trial, could adversely affect our ability to initiate the trial, enroll patients,

complete the trial, or obtain regulatory approval on the basis of the trial results, as well as lead to increased or unexpected costs.

The design and implementation of clinical trials is a complex process. We have limited experience designing or implementing clinical trials, and we may not successfully or cost-effectively design and implement clinical trials that achieve our desired clinical endpoints efficiently, or at all. A clinical trial that is not well-designed, planned, or conducted, including with respect to the FDA's GCP requirements, may delay or even prevent initiation of the trial, can lead to increased difficulty in enrolling patients, may make it more difficult to obtain regulatory approval for the drug on the basis of the study results, or, even if a drug is approved, could make it more difficult to commercialize the product successfully or obtain reimbursement from third-party payors. Additionally, a trial that is not well-designed, planned, or conducted could be inefficient or more expensive than it otherwise would have been, or we may incorrectly estimate the costs to implement the clinical trial, which could lead to a shortfall in funding. Failure to comply with the FDA's regulatory requirements for clinical trials can also result in enforcement actions.

If third parties on whom we rely for clinical and preclinical trials do not perform as contractually required or as we expect, we may not be able to obtain regulatory approval for or commercialize our product candidates and our business may suffer.

Our ability to obtain regulatory approval for our product candidates is dependent on conducting clinical and preclinical trials, which we do not have the ability to independently conduct. We rely on third-party service providers, such as independent investigators and contract research organizations (CROs), to conduct these trials on our behalf. While we expect to contract with these parties for future trials, there is no guarantee that we will be able to do so on favorable terms or at all. We have limited control over the activities of these third-party service providers and are responsible for ensuring that our trials are conducted in accordance with applicable regulations and protocols. If these third-party service providers fail to meet their obligations or conduct trials in accordance with regulatory requirements or our protocols, we may need to enter into new arrangements with alternative service providers, which could be difficult, costly, or impossible, and consequently could delay or terminate our trials. If we choose to conduct these activities ourselves, we will need to recruit trained personnel and add to our research, clinical, quality, and corporate infrastructure. The failure of these third-party service providers to comply with regulatory requirements could result in enforcement actions as well as extended, delayed, terminated, or repeated trials, which could prevent us from obtaining regulatory approval in a timely manner or at all, and may prevent us from commercializing the applicable product candidate being tested in such trials. In the event that we need to replace these third-party service providers, we may not be able to do so on commercially reasonable terms or in a timely fashion.]

If, in the future, we are unable to establish sales and marketing capabilities or enter into agreements with third parties to sell and market any approved drug by a regulatory agency, we may not be successful in commercializing those drugs if and when they are approved.

We currently have no sales, marketing, or distribution capabilities and have no experience in marketing drugs. We do not currently have an in-house marketing organization or sales force but may develop such organization and sales force in the future, which will require significant capital expenditures, management resources, and time. We will have to compete with other healthcare companies to recruit, hire, train, and retain marketing and sales personnel.

In addition to establishing internal sales, marketing, and distribution capabilities, we intend to pursue collaborative arrangements regarding the sales and marketing of our products, however, there can be no assurance that we will be able to establish or maintain such collaborative arrangements, or if we are able to do so, that we will have effective sales forces. Any revenue we receive will depend upon the efforts of such third parties, which may not be successful. We may have little or no control over the marketing and sales efforts of such third parties and our revenue from product sales may be lower than if we had commercialized our drug ourselves. We also face competition in our search for third parties to assist us with the sales and marketing efforts of our drugs.

There can be no assurance that we will be able to develop in-house sales, marketing, and distribution capabilities or establish or maintain relationships with third-party collaborators to commercialize any product in the U.S. or overseas.

The commercial success of any product candidates that we may develop will depend upon the degree of market acceptance by physicians, patients, third-party payors, and others in the medical community.

We may not achieve market acceptance of our products even if they receive marketing approval. If our products fail to gain market acceptance, we may not be able to generate product revenue or achieve profitability. The market acceptance of our product candidates, if approved for commercial sale, depends on several factors, including but not limited to:

- the prevalence and severity of any side effects;
- the effectiveness and potential advantages over alternative treatments;

- the ability to offer our product candidates for sale at competitive prices;
- relative convenience and ease of administration;
- the willingness of the target patient population to try new therapies and of physicians to prescribe these therapies;
- the strength of marketing and distribution support and the timing of market introduction of competitive products; and
- publicity concerning our products or competing products and treatments.

Although a product may display a favorable efficacy and safety profile, its market acceptance will only be known after it is launched. Our efforts to educate patients, the medical community, and third-party payors about our product candidates may require significant resources and may not be successful. Such efforts may require more resources than conventional methods used by our competitors.

General Business Risks

We may be subject to legal proceedings and litigation, which are costly to defend and could materially harm our business and results of operations.

We may be party to lawsuits and legal proceedings in the normal course of business. These matters are often expensive and disruptive to normal business operations. We may face allegations, lawsuits, and regulatory inquiries, audits, and investigations regarding data privacy, security, product liability, compliance with regulatory requirements, labor and employment, consumer protection, practice of medicine, and IP infringement, including claims related to privacy, patents, publicity, trademarks, copyrights, open-source software, and other rights. A portion of the technologies we use incorporates open-source software, and we may face claims claiming ownership of open-source software or patents related to that software, rights to our IP or breach of open-source license terms, including a demand to release material portions of our source code or otherwise seeking to enforce the terms of the applicable open-source license. We may also face allegations or litigation related to our acquisitions, securities issuances, or business practices, including public disclosures about our business. Litigation and regulatory proceedings, and particularly the healthcare regulatory and class action matters we could face, may be protracted and expensive, and the results are difficult to predict. Certain of these matters may include speculative claims for substantial or indeterminate amounts of damages and include claims for injunctive relief. Additionally, our litigation costs could be significant. Adverse outcomes with respect to litigation or any of these legal proceedings may result in significant settlement costs or judgments, penalties and fines, or require us to modify our activities or solution or require us to stop offering certain features, all of which could negatively impact our acquisition of customers and revenue growth. Litigation or other proceedings can also have an adverse impact on our therapeutic development program. We may also become subject to periodic audits, which could likely increase our regulatory compliance costs and may require us to change our business practices, which could negatively impact our revenue growth. Managing legal proceedings, litigation and audits, even if we achieve favorable outcomes, is time-consuming and diverts management's attention from our business.

The results of regulatory proceedings, litigation, claims, and audits cannot be predicted with certainty, and determining reserves for pending litigation and other legal, regulatory and audit matters require significant judgment. There can be no assurance that our expectations will prove correct, and even if these matters are resolved in our favor or without significant cash settlements, these matters, and the time and resources necessary to litigate or resolve them, could harm our reputation, business, financial condition and results of operations.

Our business and future operating results may be adversely affected by catastrophic or other events outside of our control.

We conduct our research and development in our facilities located in South San Francisco, California. Any damage to our facilities or the servers we rely on for our database would be costly and could require substantial lead-time to repair or replace. In addition, many of our employees work remotely and would be significantly impacted by any disruption to our servers. Our business and operating results may be harmed due to interruption of our research and development by events outside of our control, including earthquakes and fires. Other possible disruptions may include power loss and telecommunications failures. In the event of a prolonged disruption, we may lose customers and we may be unable to regain those customers thereafter. Our insurance may not be sufficient to cover all our potential losses and may not continue to be available to us on acceptable terms, or at all.

We will need additional capital, and we cannot be sure that additional financing will be available on acceptable terms or at all.

As of March 31, 2023, our principal source of liquidity was cash and cash equivalents of \$386.8 million, which was held for working capital purposes. Since our inception, we have generated significant operating losses as reflected in our accumulated deficit and negative cash flows from operations. We had an accumulated deficit of \$1.5 billion as of March 31, 2023.

Although we currently anticipate that our available funds and cash flows from operations will be sufficient to meet our near-term cash needs, we will require additional financing for our longer-term cash needs. Our ability to obtain financing may depend on, among other things, our development efforts, business plans, operating performance, and condition of the capital markets at the time we seek financing. We are seeking and expect to continue to seek additional funding through financings of equity, including with respect to our at-the-market equity program pursuant to the Sales Agreement with Cowen (as defined below). There is no assurance that additional financing will be available to us on favorable terms when required, or at all. If we raise additional funds through the issuance of equity, equity-linked, or debt securities, those securities may have rights, preferences, or privileges senior to the rights of Class A common stock, and our stockholders may experience dilution.

We depend on the continued services and performance of our highly qualified key personnel, and our business and research and development initiatives depend on our ability to attract and retain additional qualified personnel, including highly-skilled scientists and other specialized individuals. We may not be able to attract or retain qualified scientists and other specialized individuals in the future due to the competition for qualified personnel among life science and technology businesses.

We currently depend on the continued services and performance of our highly qualified key personnel, and, in particular, Anne Wojcicki, our Chief Executive Officer and Co-Founder. The loss of Ms. Wojcicki or other key personnel, including key members of management as well as our research, therapeutics, regulatory, product development, engineering, legal, finance, and other personnel, could disrupt our operations and may significantly delay or prevent the achievement of our business objectives. To retain our key personnel, we use various measures, including an equity incentive program for key executive officers and other employees. These measures may not be enough to retain the personnel we require to operate our business effectively. In addition, volatility in the price of our stock may adversely affect our ability to attract or retain our key personnel, as the fluctuating value of equity-based awards may limit their effectiveness as an employee incentive and retention tool.

The market for qualified personnel in our industry is intensely competitive. Inability to meet the ever-increasing expenses, including salaries, benefits, perks, and technology costs, of attracting and retaining talent may threaten our ability to provide the human resources needed to execute our growth strategy. Many of the companies with which we compete for a relatively limited pool of experienced personnel have greater resources than we have. An inability to attract, retain, and motivate additional highly skilled employees required for the planned expansion of our business could harm our results of operations and impair our ability to grow.

Specifically, our research and development initiatives and Therapeutics business depend on our ability to attract and retain highly-skilled scientists and other specialized individuals and competition for these resources is especially intense. We may not be able to attract or retain qualified scientists and other specialized individuals in the future due to the competition for qualified personnel among life science and technology businesses, particularly near our therapeutics laboratory facilities located in South San Francisco, California. We also face competition from universities and public and private research institutions in recruiting and retaining highly qualified scientific personnel. Recruiting, training and retention difficulties can limit our ability to support our research and development and commercialization efforts. All our employees are at-will, which means that either we or the employee may terminate their employment at any time. In addition, we rely on consultants, contractors, and advisors, including scientific and clinical advisors, to assist it in formulating our research and development, regulatory and commercialization strategy. Our consultants and advisors may provide services to other organizations and may have commitments under consulting or advisory contracts with other entities that may limit their availability to us. The loss of the services of one or more of our current consultants or advisors could impede the achievement of our research, development, regulatory, and commercialization objectives.

Certain other areas of our operations require employing highly specialized individuals, which makes our recruiting efforts more challenging. If we do not succeed in attracting excellent personnel or retaining or motivating existing personnel, we may be unable to achieve our business objectives or grow effectively.

Economic uncertainty or downturns, particularly affecting the markets and industries in which we operate, and on discretionary consumer spending could adversely affect our business, financial condition, and results of operations.

In recent years, the United States and global economy has been volatile, and worldwide economic conditions remain uncertain. Economic uncertainty and associated macroeconomic conditions, including market volatility, inflation, and supply chain issues, make it extremely difficult for us, as well as for our collaborators, sales channel partners, and suppliers, to accurately forecast and plan future business activities. Supply chain issues could limit the ability of our affiliated pharmacies to purchase sufficient quantities of pharmaceutical products from suppliers, which could adversely affect our ability to fulfill patient orders.

In addition, global economic conditions and the effect of economic pressures on discretionary consumer spending could continue to have a material adverse effect on our business, results of operations, and financial condition. Macroeconomic pressures in the U.S. and the global economy, such as rising interest rates, inflation, and recession fears may reduce discretionary spending. Specifically, economic uncertainty could cause our customers and patients to slow spending on our PGS and telehealth offerings. To the extent

purchases of our PGS and telehealth offerings are perceived by customers and patients and potential customers and patients as discretionary, our revenue may be disproportionately affected by delays or reductions in Kit purchases and general healthcare spending. Also, competitors may respond to challenging market conditions by lowering prices and attempting to lure away our customers and patients.

If global economic and financial market conditions deteriorate, the following factors could have a material adverse effect on our business, operating results, and financial condition:

- The success of our operations is dependent on consumer spending, which can be negatively impacted by economic conditions, as well as factors affecting disposable consumer income such as income taxes, payroll taxes, employment, consumer debt, interest rates, increases in energy costs, and consumer confidence. During the fiscal year ended March 31, 2023, interest rates and energy costs increased, and consumer confidence declined. Additionally, there are risks of a potential recession during the fiscal year ending March 31, 2024. Any of these factors could lead to a decrease in consumer spending. Declines in consumer spending have and, in the future, may result in decreased demand for our PGS and telehealth services, increased inventories, lower revenues, higher discounts, pricing pressure, and lower gross margins.
- We may be negatively impacted by changes in consumer preferences and discretionary spending habits, such as consumer behavior reallocating to non-discretionary consumer spending.
- We may be unable to access financing in the credit and capital markets at reasonable rates.
- If our suppliers or other participants in our supply chain experience difficulty obtaining financing needed for their operations in the capital and credit markets, it may result in delays or non-delivery of our Kits.
- We cannot predict the timing, strength, or duration of any economic slowdown or any subsequent recovery with respect to the general economy, or any industry in particular. If the conditions in the general economy and the markets in which we operate worsen from present levels, our business, financial condition, and results of operations could be materially adversely affected.

Adverse developments affecting financial institutions, companies in the financial services industry, or the financial services industry generally, such as actual events or concerns involving liquidity, defaults, or non-performance, could adversely affect our operations and liquidity.

Actual events involving limited liquidity, defaults, non-performance, or other adverse developments that affect financial institutions or other companies in the financial services industry or the financial services industry generally, or concerns or rumors about any events of these kinds, have in the past and may in the future lead to market-wide liquidity problems. For example, on March 10, 2023, Silicon Valley Bank, (“SVB”), was closed by the California Department of Financial Protection and Innovation, which appointed the Federal Deposit Insurance Corporation (“FDIC”), as receiver. As of March 10, 2023, we did not hold any accounts at SVB and were thus not impacted by the closure.

Although a statement by the U.S. Department of the Treasury, the Federal Reserve and the FDIC stated that all depositors of SVB would have access to all of their money after only one business day following the date of closure and depositors with SVB received such access on March 13, 2023, uncertainty and liquidity concerns in the broader financial services industry remain. There is no guarantee that the U.S. Department of Treasury, FDIC, and Federal Reserve Board will provide access to uninsured funds in the future in the event of the closure of other banks or financial institutions in a timely fashion or at all.

We may enter new business areas, such as additional primary care services, including diagnostics/behavior modification, where we do not have any experience. If we were to enter new business areas, we would likely face competition from entities more familiar with those businesses, and our efforts may not succeed.

In the future, we may expand our operations into business areas, such as additional primary care services, including diagnostics/behavior modification, where we do not have any experience. These areas would be new to our product development and marketing personnel, and we cannot be assured that the markets for these products and services will develop or that we will be able to compete effectively or will generate significant revenues in these new areas making our success in this area difficult to predict. Many companies of all sizes, including major pharmaceutical companies, specialized biotechnology companies, and traditional healthcare providers, are engaged in redesigning approaches to medical care and diagnostic medicine. Competitors operating in these potential new business areas may have substantially greater financial and other resources, larger research and development staff, and more experience in these business areas. There can be no assurances that if we undertake new business areas, that the market will accept our offerings, or that such offerings will generate significant revenues for us.

We may make acquisitions to expand our business, and if any of those acquisitions are unsuccessful, our business may be harmed.

We may choose to expand our current business through the acquisition of other businesses, products, or technologies, or through strategic alliances.

Acquisitions involve numerous risks, including the following:

- The possibility that we will pay more than the value we derive from the acquisition which could result in future non-cash impairment charges, and incremental operating losses;
- Difficulties in integration of the operations, technologies, and products of the acquired companies, which may require significant attention of our management that otherwise would be available for the ongoing development of our business;
- The assumption of certain known and unknown liabilities of the acquired companies;
- Difficulties in retaining key relationships with employees, customers, collaborators, vendors, and suppliers of the acquired company;
- In the case of acquisitions outside of the jurisdictions we currently operate in, the need to address the particular economic, currency, political, and regulatory risks associated with specific countries, particularly those related to our collection of sensitive data, regulatory approvals, and tax management, which may result in significant additional costs or management overhead for our business; and
- Any of these factors could have a negative impact on our business, results of operations or financial position.

Risks Related to Our Collaborations

Our Therapeutics business is substantially dependent on our collaboration with GSK for the development and commercialization of any drugs discovered during the “discovery term” of the GSK Agreement, and such term is set to expire in July 2023. If we, GSK and any future collaborators are unable to successfully complete clinical development, obtain regulatory approval for, or commercialize any drugs, or experience delays in doing so, our business may be materially harmed. We may engage and depend on other third parties for the development and commercialization of drugs and therapeutic programs discovered following the expiration of the GSK Agreement or outside its scope. If those collaborations are not successful, we may not be able to capitalize on our investment in our Therapeutic business.

In July 2018, we entered into a collaboration agreement with GSK focused on the discovery, development, and commercialization of drugs that are identified utilizing our proprietary databases and data mining technologies (the “GSK Agreement”). Under the GSK Agreement, GSK is our exclusive collaborator for drug discovery programs for a four-year period, which was extended for a fifth year by GSK, pursuant to the terms of the GSK Agreement. Accordingly, the exclusive collaboration provisions of the GSK Agreement are set to expire in July 2023.

Under the GSK Agreement, we and GSK jointly research potential drug targets based on reports generated from our proprietary databases and using our proprietary data mining technologies. Once promising drug targets are identified through these joint efforts, we and GSK share equally in the costs of discovery, development, and commercialization of any resultant drugs. Both parties have the right to opt out or reduce their share of the funding upon the occurrence of certain specified development milestones, in which case such party would no longer be entitled to share equally in the results of a successful collaboration, but instead would receive certain royalty payments on sales of the resultant drugs, depending on the timing and extent to which such party has reduced its funding or opted out. If GSK were to exercise any of the rights described in the prior sentence, and we elected to continue development, we would be required to supply any necessary funding to continue the development of the applicable drug. In addition, if we were to opt out of a program, GSK has the right to unilaterally decide to terminate the program or fail to develop a drug product, in which case we would not receive any royalty payments. In addition, substantially all our research services revenue is derived from the required payments for research services under the GSK Agreement.

Our Therapeutics business has historically been substantially dependent on our collaboration with GSK for the development and commercialization of any drugs discovered during the discovery term of the GSK Agreement. When the discovery term of the GSK Agreement expires in July 2023, there can be no assurance that we will be able to generate research services revenue from other sources. If we are unable to successfully partner with future collaborators or develop drugs independently, our revenues, operating results, and our ability to fund and advance drug programs and conduct our Therapeutics business will be adversely affected.

We cannot provide any assurance with respect to the success of any research, development, or commercialization efforts pursuant to the GSK Agreement.

Our current collaboration with GSK, and potential future collaborations involving drug development activities outside of the GSK Agreement, pose the following risks to us:

- collaborators have significant discretion in determining the efforts and resources that they will apply to these collaborations;
- collaborators may not perform their obligations as expected;
- collaborators may not pursue development and commercialization of any drugs that achieve regulatory approval or may elect not to continue or renew development or commercialization programs or license arrangements based on clinical trial results, changes in the collaborators' strategic focus or available funding, or external factors, such as a strategic transaction that may divert resources or create competing priorities;
- collaborators may delay clinical trials, provide insufficient funding for a clinical trial program, stop a clinical trial or abandon a drug, repeat or conduct new clinical trials or require a new formulation of a drug for clinical testing;
- collaborators could independently develop, or develop with third parties, products that compete directly or indirectly with our drugs;
- drugs discovered in collaboration with us may be viewed by our collaborators as competitive with their own drugs, which may cause collaborators to cease to devote resources to the commercialization of our drug;
- collaborators may fail to comply with applicable regulatory requirements regarding the development, manufacture, distribution or marketing of a drug candidate or product;
- collaborators are subject to the same risks of drug development as we are and, accordingly, may not ultimately be successful;
- collaborators may not properly enforce, maintain or defend our IP rights or may use our proprietary information in a way that gives rise to actual or threatened litigation that could jeopardize or invalidate our IP or proprietary information or expose us to potential litigation, or other IP proceedings;
- collaborators may infringe the IP rights of third parties, which may expose us to litigation and potential liability;
- disputes may arise between a collaborator and us that cause the delay or termination of the research, development, or commercialization of the drug, or that result in costly litigation or arbitration that diverts management attention and resources;
- if a present or future collaborator of ours were to be involved in a business combination, the continued pursuit and emphasis on our drug development or commercialization program under such collaboration could be delayed, diminished or terminated;
- collaboration agreements may restrict our right to independently pursue new drugs. For example, under the GSK Agreement, we are prohibited from, directly or indirectly, identifying, developing, manufacturing or commercializing drugs, unless GSK has opted-out of the program, or the program pre-existed the date of the Collaboration; and
- collaborations may be terminated by the collaborator, and, if terminated, we may suffer reputational harm, find it more difficult to attract new collaborators and be required to raise additional capital to pursue further development or commercialization of the applicable drugs.

GSK and any other potential drug discovery collaborators will have significant discretion in determining when to make announcements, if any, about the status of our collaborations, including results from clinical trials, and timelines for advancing collaborative programs. As a consequence, the price of our Class A common stock may decline as a result of announcements of unexpected clinical trial results or data relative to our research and development programs.

Our drug discovery collaborators have significant discretion in determining when to make announcements about the status of our collaborations, including about preclinical and clinical developments and timelines for advancing the collaborative programs. While as a general matter we intend to periodically report on the status of our collaborations, our drug discovery collaborators, and in particular, our privately-held collaborators, may wish to report such information more or less frequently than we intend to or may not wish to report such information at all. The price of our Class A common stock may decline as a result of the public announcement of unexpected results or developments in our collaborations, or as a result of our collaborators withholding such information.

Following the expiration of the discovery term under the GSK Agreement in July 2023, we intend to establish other collaborations, and, if we are not able to obtain new collaboration partners, or to negotiate commercially reasonable terms, we may be required to modify our therapeutics development strategies and goals.

Our Therapeutics business and the potential commercialization of any drugs will require substantial additional cash to fund expenses. Following the expiration of the discovery term of the GSK Agreement in July 2023, we may decide to collaborate with other pharmaceutical and biotechnology companies for drug discovery, development, manufacture, and commercialization activities. These collaborations may not be successful, which would adversely impact our business and results of operations.

Under the GSK Agreement, we have granted exclusive rights to GSK with respect to the identification, development, and commercialization of drugs until July 2023, subject to certain limited exceptions. During the discovery term of the GSK Agreement, we are restricted from granting similar rights to other parties. This exclusivity will continue to limit our ability to enter into strategic drug discovery collaborations with other third parties until July 2023. To the extent we seek additional collaboration opportunities after the expiration of the discovery term of the GSK Agreement in July 2023, we will face significant competition. Collaborations are complex and time-consuming to negotiate and document. In addition, there have been a significant number of business combinations among large pharmaceutical companies that have resulted in a reduced number of potential future collaborators. Whether we reach a definitive agreement for a collaboration will depend, among other things, upon our assessment of the collaborator's resources and expertise, the terms and conditions of the proposed collaboration and the proposed collaborator's evaluation of a number of factors. We may not be able to negotiate collaborations on a timely basis, on acceptable terms, or at all. If we are unable to successfully enter into collaborations in the future, we may have to curtail our drug discovery and development activities including reducing or delaying individual development programs, potential commercialization plans, or any sales or marketing activities for a drug. We may also have to increase our expenditures and undertake development or commercialization activities at our own expense. If we elect to increase our expenditures to fund development or commercialization activities on our own, we may need to obtain additional capital, which may not be available to us on acceptable terms, or at all. If we do not have sufficient funds, we may not be able to further develop our drugs or bring them to market and generate product revenue.

Our collaborators may not achieve projected discovery and development milestones and other anticipated key events in the expected timelines or at all, which could have an adverse impact on our business.

Our current drug discovery collaborators, from whom we are entitled to receive milestone payments upon achievement of various development, regulatory, and commercial milestones as well as royalties on commercial sales, if any, under the collaboration agreements that we have entered into with them, face numerous risks in the development of drugs, including the conduct of preclinical and clinical testing, obtaining regulatory approval, and achieving product sales. In addition, the amounts we are entitled to receive upon the achievement of such milestones tend to be smaller for near-term development milestones and increase if and as a collaborative drug advances through regulatory development to commercialization and will vary depending on the level of commercial success achieved, if any. We do not anticipate receiving significant milestone payments from many of our drug discovery collaborators for several years, if at all, and our drug discovery collaborators may never achieve milestones that result in significant cash payments to us. Accordingly, our business could be adversely affected if projected discovery and development milestones are not achieved.

Risks Related to Governmental Regulation

Our products and services are subject to extensive regulation by various U.S. federal and state agencies and equivalent foreign agencies and compliance with existing or future regulations could result in unanticipated sanctions, civil penalties, contractual damages, reputational harm, expenses, or limit our ability to offer our products and services.

We have no prior experience in obtaining regulatory approval or commercializing a drug product. It is possible that the FDA and equivalent foreign agencies may reject any or all of our planned marketing applications for substantive review, or after reviewing our data, may conclude that our applications are insufficient to obtain regulatory approval for any of our drug product candidates. The FDA or equivalent foreign agencies may also mandate that we conduct additional clinical or manufacturing validation studies, which could be time-consuming and expensive, and require us to submit the data before reconsidering our applications. Depending on the scope of these or any other FDA-required or other studies, the approval of any marketing application we submit may be significantly delayed, potentially for years, or require us to allocate more resources than we have available or can acquire.

On November 22, 2013, we received a warning letter from the FDA to discontinue marketing our health-related genetic test in the U.S. until we received FDA marketing authorization for the device. We were allowed to continue to offer genetic ancestry services in the U.S.

In June 2014, we submitted a 510(k) seeking premarket clearance for our Bloom Syndrome carrier test. On February 19, 2015, FDA granted marketing authorization pursuant to its de novo review standard for our Bloom Syndrome carrier test. The FDA also determined that certain of our other similar autosomal recessive carrier reports were exempt moderate risk reports, which subject to special controls, could be marketed by us without further premarket review. In October 2015, we began marketing our new Personal Genome Service in the U.S., which includes detailed reports on carrier status, pursuant to our FDA authorization and exemption, as well as research reports and reports on wellness, traits and ancestry, which we believe do not require premarket authorization.

We continued to submit additional requests to the FDA seeking authorization to market certain Genetic Health Risk ("GHR") reports. On April 6, 2017, the FDA granted marketing authorization pursuant to its de novo review standard for our GHR reports for ten disease conditions. The FDA also determined that certain of our other similar genetic health risk reports were exempt low-to-moderate

risk reports, which subject to certain special controls, could be marketed by us without further premarket review. On March 6, 2018, the FDA granted marketing authorization pursuant to its de novo review standard for our Genetic Health Risk report for BRCA1/BRCA2 (Selected Variants). On January 22, 2019, we received FDA clearance for a Genetic Health Risk report for MUTYH-associated polyposis (MAP), a hereditary colorectal cancer syndrome. On October 31, 2018, the FDA granted marketing authorization pursuant to its de novo review standard for our Pharmacogenetic reports, including our Pharmacogenetics report for CYP2C19. On August 17, 2020, the FDA granted a 510(k) clearance for our Pharmacogenetics report for CYP2C19, modifying the labeling of the report authorized in 2018 to remove the need for confirmatory testing, allowing us to report interpretive drug information for two medications. On January 10, 2022, the FDA granted a 510(k) clearance for our Genetic Health Risk report for Hereditary Prostate Cancer (HOXB13-Related).

We may be required to seek FDA-premarket review of other products and services, including reports that we do not currently believe require premarket authorization but could be subject to additional regulation including premarket review. In addition, it's possible that new laws may be passed which seeks to regulate laboratory testing and to modernize FDA regulations of diagnostic products (see, for example, the Verifying Accurate Leading-edge IVCT Development Act of 2021 (the "VALID Act of 2021," the "VALID Act" or the "Act") which was not passed in the 117th U.S. Congress). These laws could result in additional regulatory burdens that could be costly and time-consuming. We and/or our finished device contract manufacturers may be inspected by the FDA which may result in the issuance of inspectional observations that suggest noncompliance with the FDCA and its implementing regulations (including the QSR). If the FDA determines that we and/or our finished device contract manufacturers are not in compliance with the FDCA, we may have to recall product and/or be subject to an FDA enforcement action. The process for resolving the inspectional observations and/or potential enforcement action could be costly and time-consuming.

Any product candidates for which we or our future collaborators receive marketing approval in the future could be subjected to post-approval restrictions or market withdrawal. We, and our future collaborators, may be liable to significant penalties if we, or they, fail to meet regulatory requirements or experience unforeseen problems with our products after receiving approval.

Any of our product candidates for which we, or our future collaborators, obtain marketing approval in the future, may face continuous requirements and reviews from regulatory authorities, including the FDA. These requirements include submission of post-marketing information and reports, registration and listing requirements, manufacturing requirements, quality control, quality assurance, and record-keeping requirements, and requirements for distribution of samples to physicians. The FDA may impose limitations on the indicated uses for which the product may be marketed, or on the conditions of approval, including the implementation of a Risk Evaluation and Mitigation Strategy, which could include a restricted distribution system. The FDA may also require post-marketing studies or clinical trials to monitor the safety or efficacy of a product, which could be costly.

We currently are and, in the future, will be subject to a number of different FDA and regulatory authority requirements with respect to development stage drug product candidates and any products for which we may receive approval. Any previously unknown adverse events or problems with our products or their manufacturing processes, or failure to comply with regulatory requirements before or after product approval, may have various consequences. These may include litigation involving patients taking our products, restrictions on products, manufacturers, or manufacturing processes, restrictions on labeling or marketing, restrictions on product distribution or use, requirements to conduct post-marketing studies or clinical trials, warning or untitled letters, as well as other enforcement and adverse actions, product withdrawal from the market, refusal to approve pending applications or supplements, product recall, fines, restitution or disgorgement of profits or revenues, suspension or withdrawal of marketing approvals, damage to relationships with potential collaborators, unfavorable press coverage and damage to our reputation, refusal to permit import or export of products, product seizure, or injunctions or the imposition of civil or criminal penalties, any one of which could materially harm our business.

We will face legal, reputational, and financial risks if we fail to protect our customer data from security breaches or cyberattacks. Changes in laws or regulations relating to privacy or the protection or transfer of data relating to individuals, or any actual or perceived failure by us to comply with such laws and regulations or any other obligations relating to privacy or the protection or transfer of data relating to individuals, could adversely affect our business.

We receive and store a large volume of personally identifiable information ("PII"), genetic and health information, and other data relating to our customers and patients, as well as other PII and other data relating to individuals such as our employees. Security breaches, employee malfeasance, or human or technological error could lead to potential unauthorized disclosure of our customers' and patients' personal information. Even the perception that the privacy of personal information is not satisfactorily protected or does not meet regulatory requirements could inhibit sales of our solutions and any failure to comply with such laws and regulations could lead to significant fines, penalties or other liabilities.

Increased global IT security threats and more sophisticated and targeted computer crime pose a risk to the security of our systems and networks and the confidentiality, availability, and integrity of our data. There have been several recent, highly publicized cases in which organizations of various types and sizes have reported the unauthorized disclosure of customer or other confidential information, as well as cyberattacks involving the dissemination, theft, and destruction of corporate information, IP, cash, or other valuable assets.

There have also been several highly publicized cases in which hackers have requested “ransom” payments in exchange for not disclosing customer or other confidential information or for not disabling the target company’s computer or other systems. A security breach or privacy violation that leads to unauthorized disclosure or loss of unauthorized use or modification of, or that prevents access to or otherwise impacts the confidentiality, security, or integrity of, sensitive, confidential, or proprietary information we or our third-party service providers maintain or otherwise process, could require us to comply with breach notification laws, and cause us to incur significant costs for remediation, fines, penalties, notification to individuals, media and governmental authorities, implementation of measures intended to repair or replace systems or technology, and to prevent future occurrences, potential increases in insurance premiums, and forensic security audits or investigations. Additionally, a security compromise of our information systems or of those of businesses with whom we interact that results in confidential information being accessed by unauthorized or improper persons could harm our reputation and expose us to customer and patient attrition, and claims brought by our customers, patients, or others for breaching contractual confidentiality and security provisions or data protection laws. Significant monetary damages imposed on us could be significant and not covered by our liability insurance. As a result, a security breach or privacy violation could result in increased costs or loss of revenue.

Techniques used by bad actors to obtain unauthorized access, disable or degrade service, or sabotage systems evolve frequently and may not immediately produce signs of intrusion, and we may be unable to anticipate these techniques or to implement adequate preventative measures.

We believe that, because of our operating processes, we are not a covered entity or a business associate under HIPAA, which establishes a set of national privacy and security standards for the protection of protected health information by health plans, healthcare clearinghouses, and certain healthcare providers, referred to as covered entities, and the business associates with whom such covered entities contract for services. However, if the laws change, or to the extent we begin engaging in certain electronic transactions in connection with accepting payment from third parties or insurance providers in our telehealth business generally, we may become subject to HIPAA and could face penalties and fines if we fail to comply with applicable requirements of HIPAA and its implementing regulations. Regardless of whether or not we meet the definition of a covered entity or business associate under HIPAA, we voluntarily adhere to certain HIPAA-related requirements.

We have developed and maintain policies and procedures with respect to health information and personal information that we use or disclose in connection with our operations, including the adoption of administrative, physical, and technical safeguards to protect the privacy and security of such information. As our business operations continue to develop, including through the launch of new product offerings or the development of new services, we may collect additional sensitive health and personal information from our customers and patients that could create additional compliance obligations and may increase our exposure to compliance and regulatory risks regarding the protection, use and dissemination of such information.

In addition to HIPAA, numerous other local, municipal, state, federal, and international laws and regulations address privacy and the collection, storing, sharing, use, disclosure, and protection of certain types of data, including the California Online Privacy Protection Act, the Personal Information Protection and Electronic Documents Act, the Telephone Consumer Protection Act of 1991, or the TCPA, Section 5 of the Federal Trade Commission Act, and California Consumer Privacy Act, as amended by the California Privacy Rights Act (“the CCPA”). Privacy laws similar to the CCPA have been passed in Virginia, Colorado, Utah and Connecticut, all of which will be effective by the end of 2023. These laws, rules, and regulations evolve frequently, and their scope may continually change, through new legislation, amendments to existing legislation, and changes in enforcement, and may be inconsistent from one jurisdiction to another. For example, the CCPA, which went into effect on January 1, 2020, among other things, requires new disclosures to California consumers and affords such consumers new abilities to opt out of certain sales of personal information. The CCPA provides for fines of up to \$7,500 per violation. Aspects of the CCPA and its interpretation and enforcement remain uncertain. The effects of this legislation are potentially far-reaching and may require us to modify our data processing practices and policies and incur substantial compliance-related costs and expenses. Additionally, many laws and regulations relating to privacy and the collection, storing, sharing, use, disclosure, and protection of certain types of data are subject to varying degrees of enforcement and new and changing interpretations by courts. The CCPA and other changes in laws or regulations relating to privacy, data protection, breach notifications, and information security, particularly any new or modified laws or regulations, or changes to the interpretation or enforcement of such laws or regulations, that require enhanced protection of certain types of data or new obligations with regard to data retention, transfer, or disclosure, could greatly increase the cost of providing our platform, require significant changes to our operations, or even prevent us from providing our platform in jurisdictions in which we currently operate and in which we may operate in the future.

We also are required to comply with increasingly complex and changing data security and privacy regulations in the U.K., the EU and in other jurisdictions in which we conduct business that regulate the collection, use and transfer of personal data, including the transfer of personal data between or among countries. For example, the European Union’s GDPR, now also enacted in the U.K. (“U.K. GDPR”), has imposed stringent compliance obligations regarding the handling of personal data and has resulted in the issuance of significant financial penalties for noncompliance. Further, in July 2020, the Court of Justice of the European Union released a decision in the Schrems II case (Data Protection Commission v. Facebook Ireland, Schrems), declaring the EU-US Privacy Shield invalid and

calling into question data transfers carried out under the old versions of the European Commission’s Standard Contractual Clauses. As a result of the decision, we may face additional scrutiny from EU regulators in relation to the transfer of personal data from the EU to the US. Noncompliance with the GDPR can trigger fines of up to the greater of €20 million or 4% of global annual revenues. Since 2021, laws specific to genetic testing companies have passed in California, Utah, Arizona, Maryland, Kentucky, and Wyoming and legislation has been proposed in other states. Other countries have enacted or are considering enacting data localization laws that require certain data to stay within their borders. We may also face audits or investigations by one or more domestic or foreign government agencies or our customers or patients pursuant to our contractual obligations relating to our compliance with these regulations. Complying with changing regulatory requirements requires us to incur substantial costs, exposes us to potential regulatory action or litigation, and may require changes to our business practices in certain jurisdictions, any of which could materially adversely affect our business operations and operating results.

Despite our efforts to comply with applicable laws, regulations, and other obligations relating to privacy, data protection, and information security, it is possible that our interpretations of the law, practices, or platform could be inconsistent with, or fail or be alleged to fail to meet all requirements of, such laws, regulations, or obligations. Our failure, or the failure by our third-party providers on our platform, to comply with applicable laws or regulations or any other obligations relating to privacy, data protection, or information security, or any compromise of security that results in unauthorized access to, or use or release of PII or other data relating to our customers and patients, or other individuals, or the perception that any of the foregoing types of failure or compromise have occurred, could damage our reputation, discourage new and existing customers and patients from using our platform, or result in fines, investigations, or proceedings by governmental agencies and private claims and litigation, any of which could adversely affect our business, financial condition, and results of operations. Even if not subject to legal challenge, the perception of privacy concerns, whether or not valid, may harm our reputation and brand and adversely affect our business, financial condition, and results of operations.

We plan to continue to expand operations abroad where we have limited operating experience and we may be subject to increased regulatory risks and local competition. If we are unsuccessful in efforts to expand internationally, our business may be harmed.

Regulations exist or are under consideration in countries outside the U.S., which limit or prevent the sale of direct-to-consumer genetic tests. Some countries, including Australia, require premarket review by their regulatory body similar to that required in the U.S. by FDA. Some countries, including Australia, Germany, France, and Switzerland require a physician prescription for genetic tests providing health information, thus limiting our offering in those countries to an ancestry-only test. Other countries require mandatory genetic counseling prior to genetic testing. These regulations limit the available market for our products and services and increase the costs associated with marketing the products and services where we are able to offer our products. Legal developments in the EU have created a range of new compliance obligations regarding transfers of personal data from the European Union to the U.S., including GDPR and U.K. GDPR, which applies to certain of our activities related to services that we offer or may offer to individuals located in the EU. Significant effort and expense will continue to be required to ensure compliance with the GDPR and U.K. GDPR, and could cause us to change our business practices. Moreover, requirements under the GDPR and U.K. GDPR may change periodically or may be modified by the EU/U.K. and/or national law. The GDPR and U.K. GDPR impose stringent compliance obligations regarding the handling of personal data and have resulted in the issuance of significant financial penalties for noncompliance, including possible fines of up to 4% of global annual turnover for the preceding financial year or €20 million/£17.5 million (whichever is higher) for the most serious violations.

The EU adopted the In Vitro Diagnostic Devices Regulation (IVDR) replacing the In Vitro Diagnostics Directive (IVDD) which increased the regulatory requirements applicable to IVDs in the EU and requires that in most cases we need to obtain pre-market approval from an independent certified notified body for our PGS health reports, which became subject to the IVDR as of May 25, 2022. We must also achieve and maintain International Standards Organization (ISO) certification of our Quality Management Systems. If we are not able to achieve or maintain regulatory compliance, we may not be permitted to market our health reports and/or may be subject to enforcement by EU Competent Authorities, bodies with authority to act on behalf of the government of the applicable EU Member State, or other nations which adopt IVDR standards, to ensure that the requirements of the IVDR or IVDD are met. On December 2, 2022, the European Commission adopted a proposal for a delay in the implementation of certain requirements of the IVDR due to a shortage of independent notified bodies to provide certification for the volume of products requiring it. The proposal will not be effective unless and until the European Parliament approves the measure.

Additionally, in September 2020 the United Kingdom Medicines and Healthcare products Regulatory Agency (“MHRA”) originally announced regulations requiring a new United Kingdom Conformity Assessed mark (“UKCA”) applicable to medical devices, including testing products and services like our PGS health reports, to be placed on the market beginning January 1, 2021 or for products already on the market, to be maintained on the market after June 30, 2023 which requires that a Declaration of Conformity be obtained based on technical files for all products to which the UKCA applies. Aspects of the UKCA took effect January 1, 2021 and require that medical devices be registered with MHRA. In addition to registration requirements, manufacturers of medical devices based outside of the U.K., including us, must designate a United Kingdom Responsible Person to maintain documents supporting the UKCA and

Declaration of Conformity and respond to inquiries from MHRA. However, the planned June 30, 2023 deadline has now been delayed by twelve months to June 30, 2024. From July 2024, the transitional arrangements will apply for CE and UKCA marked devices placed on the Great Britain market. If we are not able to achieve or maintain regulatory compliance, we may not be permitted to market our health reports and/or may be subject to enforcement action by MHRA.

If we fail to comply with any of these regulations, we could become subject to enforcement actions or the imposition of significant monetary fines, other penalties, or claims, which could harm our operating results or our ability to conduct our business.

Government regulation of healthcare creates risks and challenges with respect to our compliance efforts and our business strategies, and if we fail to comply with applicable healthcare and other governmental regulations, we could face substantial penalties, our business, financial condition, and results of operations could be adversely affected, and we may be required to restructure our operations.

The healthcare industry is subject to changing political, economic, and regulatory influences that may affect our telehealth business. During the past several years, the healthcare industry has been subject to an increase in governmental regulation and subject to potential disruption due to legislative initiatives and government regulation, as well as judicial interpretations thereof. While these regulations may not directly impact us or our offerings in every instance, they will affect the healthcare industry as a whole and may impact patient use of our services. We currently accept payments only from our patients—not any third-party payors, such as government healthcare programs or health insurers. Because of this approach, we are not subject to many of the laws and regulations that impact many other participants in the healthcare industry.

If the government asserts broader regulatory control over companies like ours or if we determine that we will change our business model and accept payment from and/or participate in third-party payor programs, the complexity of our operations and our compliance obligations will materially increase. Failure to comply with any applicable federal, state, and local laws and regulations could have a material adverse effect on our business, financial condition, and results of operations.

Even within the narrowed band of applicable healthcare laws and regulations, because of the breadth of these laws and the narrowness of available statutory and regulatory exemptions, it is possible that some of our activities could be subject to challenge under one or more of such laws. Any action brought against us for violations of these laws or regulations, even if successfully defended, could cause us to incur significant legal expenses and divert our management's attention from the operation of our business.

Although we have adopted policies and procedures designed to comply with these laws and regulations and conduct internal reviews of our compliance with these laws, our compliance is also subject to governmental review. The growth of our business and organization and our future continued expansion outside of the United States may increase the potential of violating these laws or our internal policies and procedures. The risk of our being found in violation of these or other laws and regulations is further increased by the fact that many have not been fully interpreted by the regulatory authorities or the courts, and their provisions are open to a variety of interpretations. Any action brought against us for violation of these or other laws or regulations, even if we successfully defend against it, could cause us to incur significant legal expenses and divert our management's attention from the operation of our business. If our operations are found to be in violation of any of the federal, state, and foreign laws described above or any other current or future fraud and abuse or other healthcare laws and regulations that apply to us, we may be subject to penalties, including significant criminal, civil, and administrative penalties, damages and fines, disgorgement, additional reporting requirements and oversight, and imprisonment for individuals, as well as contractual damages and reputational harm. We could also be required to curtail or cease our operations. Any of the foregoing consequences could seriously harm our business and our financial results.

Our ability to offer access to telehealth services internationally is subject to the applicable laws governing remote care and the practice of medicine in each applicable jurisdiction. Each country's interpretation and enforcement of these laws is evolving and could vary significantly. We cannot provide assurance that we have accurately interpreted each such law and regulation. Moreover, these laws and regulations may change significantly as this manner of providing products and services evolves. New or revised laws and regulations (or interpretations thereof) could have a material adverse effect on our business, financial condition, and results of operations.

As part of our telehealth business, we provide pharmacy and prescription medication services, which subjects us to additional healthcare laws and regulations and increases the complexity and extent of our compliance and regulatory obligations.

The operations of the Affiliated Pharmacies subject us to extensive federal, state, and local regulation. Pharmacies, pharmacists, and pharmacy technicians are subject to a variety of federal and state statutes and regulations governing various aspects of the pharmacy business, including the distribution and dispensing of drugs; operation of mail-order pharmacies; licensure of facilities and professionals, including pharmacists, technicians, and other healthcare professionals; packaging, storing, distributing, shipping, and tracking of pharmaceuticals; repackaging of drug products; labeling, medication guides, and other consumer disclosures; interactions with prescribing professionals; compounding of prescription medications; counseling of patients; prescription transfers; advertisement of

prescription products and pharmacy services; security; the handling, security, diversion control, dispensing, monitoring, and record-keeping of controlled substances, listed chemicals, and scheduled listed chemicals; supply chain security, including requirements related to information exchange, investigations, and reporting; as well as additional requirements of various governmental authorities, including the U.S. Drug Enforcement Agency, the FDA, state boards of pharmacy, the U.S. Consumer Product Safety Commission, and other state enforcement or regulatory agencies. Many states have laws and regulations requiring out-of-state mail-order pharmacies to register with that state's board of pharmacy. The Federal Trade Commission also has requirements for mail-order sellers of goods. The U.S. Postal Service (the "USPS") has statutory authority to restrict the transmission of drugs and medicines through the mail to a degree that may have an adverse effect on our mail-order operations. The USPS historically has exercised this statutory authority only with respect to controlled substances. If the USPS restricts our ability to deliver drugs through the mail, alternative means of delivery are available to us. However, alternative means of delivery could be significantly more expensive. The U.S. Department of Transportation has regulatory authority to impose restrictions on drugs inserted into the stream of commerce. These regulations generally do not apply to the USPS and its operations. Failure or perceived failure by us or our Affiliated Pharmacies to comply with any applicable federal, state, and local laws and regulations could have a material adverse effect on our business, financial condition, and results of operations and may expose us to civil and criminal penalties.

State legislative and regulatory changes specific to the area of telehealth or pharmacy law may present the PMCs and/or Affiliated Pharmacies with additional requirements and state compliance costs, which may create additional operational complexity and increase costs.

The PMCs and their providers' ability to provide telehealth services to patients in a particular jurisdiction is dependent upon the laws that govern the provision of remote care, professional practice standards, and healthcare delivery in general in that jurisdiction. Likewise, the ability of the Affiliated Pharmacies to fulfill prescriptions and distribute pharmaceutical products is dependent upon the laws that govern licensed pharmacies and the fulfillment and distribution of prescription medication and other pharmaceutical products, which include in some cases requirements relating to telehealth and the establishment of an appropriate provider-patient relationship. Laws and regulations governing the provision of telehealth services and the prescribing, compounding, fulfillment, and/or distribution of pharmaceutical products are evolving at a rapid pace and are subject to changing political, regulatory, and other influences. Some states' regulatory agencies or medical boards may have established rules or interpreted existing rules in a manner that limits or restricts providers' ability to provide telehealth services or for physicians to supervise nurse practitioners remotely. Additionally, there may be limitations placed on the modality through which telehealth services are delivered or medications are prescribed. For example, some states specifically require synchronous (or "live") communications and restrict or exclude the use of asynchronous telehealth modalities, which is also known as "store-and-forward" telehealth. However, other states do not distinguish between synchronous and asynchronous telehealth services. Similarly, the FDA as well as some states' regulatory agencies or pharmacy boards have established rules or interpreted existing rules in a manner that limits or restricts the manner in which prescription medications can be prescribed, dispensed and sold.

Because these are developing areas of law and regulation, we continually monitor our compliance in every jurisdiction in which we operate. However, we cannot be assured that our or the PMCs', providers', or Affiliated Pharmacies' activities and arrangements, if challenged, will be found to be in compliance with the law or that a new or existing law will not be implemented, enforced, or changed in a manner that is unfavorable to our business model. We cannot predict the regulatory landscape for those jurisdictions in which we operate and any significant changes in law, policies, or standards, or the interpretation or enforcement thereof, could occur with little or no notice. If there is a change in laws or regulations related to our business, or the interpretation or enforcement thereof, that adversely affects our structure or operations, including greater restrictions on the use of asynchronous telehealth or remote supervision of nurse practitioners, or limitations on the ability to develop or distribute pharmaceutical products, it could have a material adverse effect on our business, financial condition, and results of operations.

Risks Related to Intellectual Property and Legal Proceedings

If we lose our protection, through expiration or otherwise, or are unable to protect our IP, the value of our brands and other intangible assets may be diminished, and our business may be adversely affected.

We depend on our proprietary technology, IP, and services for our success and ability to compete. We rely and expect to continue to rely on a combination of confidentiality and other agreements with our employees, consultants and third parties with whom we have relationships and who may have access to confidential or patentable aspects of our research and development output, as well as trademark, copyright, patent and trade secret protection laws, to protect our proprietary rights. Although we enter into these confidentiality and other agreements, any of these parties may breach the agreements and disclose information before a patent application is filed and jeopardize our ability to seek patent protection. In addition, our ability to obtain and maintain valid and enforceable patents depends on whether the differences between our inventions and the prior art allow our inventions to be patentable over the prior art. Since publications in the scientific literature often lag behind the actual discoveries, and patent applications do not publish until 18

months after filing, we are never certain that we are the first to make the inventions claimed in any of our patents or that we are the first to file for patent protection of such inventions. We have filed various applications for certain aspects of our IP in the U.S. and other countries. However, third parties may knowingly or unknowingly infringe our proprietary rights, third parties may challenge proprietary rights held by us, pending and future patent, copyright, trademark, and other applications may not be approved, and we may not be able to prevent infringement without incurring substantial expense. Certain IP rights may also expire or otherwise be lost through invalidity proceedings or court actions, which can also be detrimental to the operation of the business. In addition, the laws of some foreign countries do not protect proprietary rights to the same extent, as do the laws of the U.S.

If the protection of our proprietary rights is inadequate to prevent use or appropriation by third parties, or such rights expire or are otherwise lost, the value of our brands and other intangible assets may be diminished and competitors may be able to more effectively mimic our service and methods of operations. Despite our efforts to protect our proprietary rights, attempts may be made to copy or reverse engineer aspects of our products or services, or to obtain and use information that we regard as proprietary. Accordingly, we may be unable to protect our proprietary rights against unauthorized third party copying or use. Furthermore, policing the unauthorized use of our IP would be difficult for us. Litigation may be necessary in the future to enforce our IP rights, to protect our trade secrets or to determine the validity and scope of the proprietary rights of others. Litigation and/or any of the events above could result in substantial costs and diversion of resources and could have a material adverse effect on our business, consolidated financial condition and consolidated results of operations.

We may be unable to obtain and maintain patent protection for therapeutic drugs we develop.

Our success depends in large part on our ability to obtain and maintain patent protection in the U.S. and other countries for our proprietary therapeutic drugs and other technologies. Since the development of our therapeutic drugs is at an early stage, our IP portfolio is also at an early stage. We have filed and intend to file patent applications. However, there are no assurances that any such patent application will issue as a granted patent. Any failure to file a non-provisional application within one year of a provisional patent application may cause us to lose the ability to obtain patent protection for the inventions disclosed in the provisional patent application.

In addition, in some cases, we may not be able to obtain issued claims covering compositions relating to our programs and therapeutic drugs, as well as other technologies important to our business. Instead, we may rely on patent applications covering a method of use and/or method of manufacture for protection of such programs and therapeutic drugs. There is no assurance that any such patent application will issue as a granted patent, and even if they are granted, the claims may not be sufficient to prevent third parties from utilizing our technology. Any failure to obtain or maintain patent protection with respect to our programs and therapeutic drugs could have a material adverse effect on our business, financial condition, results of operations, and prospects.

We may be unable to obtain sufficiently broad protection, or we may lose patent protection.

As patent prosecution is highly uncertain, involves complex legal and factual questions, and has been the subject of litigation in recent years, the issuance, scope, validity, enforceability, and commercial value of our patent rights are highly uncertain. Our pending and future patent applications may not result in granted patents that protect our drugs or technologies which would render us unable to prevent others from commercializing competitive drugs or technologies. The coverage of patent claims may be significantly narrowed during patent prosecution before the patent is granted, and the scope can also be narrowly interpreted after grant, which may not provide us meaningful protection, may not allow us to exclude competitors or may not provide us with any competitive advantage.

Litigation with respect to our IP rights or our commercial activities could result in unanticipated expenses and, if resolved unfavorably, could harm our business.

Companies in the genetics, pharmaceutical, medical device, Internet, technology, and online payment industries own large numbers of patents, copyrights, trademarks, and trade secrets and frequently enter into litigation based on allegations of infringement or other violations of IP rights. We have, in the past, received notice from patent holders and other parties alleging that we have infringed their IP rights. As we face increasing competition and become increasingly high profile, the possibility of IP claims against us grows. If our technologies and services may not be able to withstand any third-party claims, we may be subject to litigation on the foregoing. The costs of supporting such litigation are considerable, and there can be no assurances that a favorable outcome will be obtained. We may be required to settle such litigation on terms that are unfavorable to us. Similarly, if any litigation to which we may be a party fails to settle and we go to trial, we may be subject to an unfavorable judgment, which may not be reversible upon appeal. The terms of such a settlement or judgment may require us to cease some or all of our operations or require the payment of substantial amounts to the other party.

With respect to any IP claims, we may have to obtain a license, which may not be available on reasonable terms and may significantly increase our operating expenses. A license to continue such practices may not be available to us at all. As a result, we may also be required to develop alternative non-infringing technology or practices or discontinue such practices. The development of

alternative non-infringing technology or practices could require significant effort and expense. Our business and results of operations could be materially and adversely affected as a result.

We may not be able to protect our IP rights throughout the world.

Filing, prosecuting and defending patents on our products and services in all countries throughout the world is prohibitively expensive. In addition, the laws of some countries do not protect IP rights to the same extent as the laws of the U.S., and we may encounter difficulties in protecting and defending such rights in foreign jurisdictions. Consequently, we may not be able to prevent third parties from practicing our inventions in all countries outside the U.S., or from selling or importing products made using our inventions in and into other jurisdictions. Competitors may use our technologies in jurisdictions where we have not obtained patent protection to develop their own products and may also export infringing products to territories where we have patent protection, but enforcement is not as strong as that in the U.S. These products may compete with our products and our patents or other IP rights may not be effective or sufficient to prevent them from competing.

Many companies have encountered significant problems in protecting and defending IP rights in foreign jurisdictions. The legal systems of many other countries do not favor the enforcement of patents and other IP protection, particularly those relating to biotechnology, which could make it difficult for us to stop the infringement of our patents in such countries. Proceedings to enforce our patent rights in foreign jurisdictions could result in substantial cost and divert our efforts and attention from other aspects of our business, could put our patents at risk of being invalidated or interpreted narrowly and our patent applications at risk of not issuing, and could provoke third parties to assert claims against us. We may not prevail in any lawsuits that we initiate, and the damages or other remedies awarded, if any, may not be commercially meaningful. Accordingly, our efforts to enforce our IP rights around the world may be inadequate to obtain a significant commercial advantage from the IP that we develop or license.

Changes in patent law in the U.S. and other jurisdictions could diminish the value of patents in general, thereby impairing our ability to protect our products and services.

Changes in either the patent laws or in interpretations of patent laws in the U.S. or other countries or regions may diminish the value of our IP. We cannot predict the breadth of claims that may be allowed or enforced in our patents or in third-party patents. In the U.S., prior to March 16, 2013, assuming that other requirements for patentability were satisfied, the first to invent the claimed invention was entitled to the patent, while outside the U.S., the first to file a patent application was entitled to the patent. On or after March 16, 2013, under the Leahy-Smith America Invents Act (“America Invents Act”), enacted on September 16, 2011, the U.S. transitioned to a first inventor to file system in which, assuming that other requirements are satisfied, the first inventor to file a patent application will be entitled to the patent on an invention regardless of whether a third party was the first to invent the claimed invention. As such, a third party that files a patent application in the USPTO before us could be awarded a patent covering an invention of ours even if we had made the invention before it was made by such third party. This will require us to be cognizant of the time from invention to filing of a patent application. Since patent applications in the U.S. and most other countries are confidential for a period of time after filing or until issuance, we cannot be certain that we or our licensors were the first to either file any patent application related to our products or services or invent any of the inventions claimed in our or our licensor’s patents or patent applications.

The America Invents Act also includes a number of significant changes that affect the way patent applications will be prosecuted and also may affect patent litigation. These include allowing third-party submission of prior art to the USPTO during patent prosecution and additional procedures to attack the validity of a patent by USPTO administered post-grant proceedings, including post-grant review, inter partes review and derivation proceedings. Because of a lower evidentiary standard in USPTO proceedings compared to the evidentiary standard in U.S. federal courts necessary to invalidate a patent claim, a third party could potentially provide evidence in a USPTO proceeding sufficient for the USPTO to hold a claim invalid even though the same evidence would be insufficient to invalidate the claim if first presented in a district court action. Accordingly, a third party may attempt to use the USPTO procedures to invalidate our patent claims that would not have been invalidated if first challenged by the third party as a defendant in a district court action. Therefore, the America Invents Act and its implementation could increase the uncertainties and costs surrounding the prosecution of our owned or in-licensed patent applications and the enforcement or defense of our owned or in-licensed issued patents, all of which could have a material adverse effect on our business.

Recent U.S. Supreme Court rulings have also narrowed the scope of patent protection available in certain circumstances and weakened the rights of patent owners in certain situations. In addition to increasing uncertainty with regard to our ability to obtain patents in the future, this combination of events has created uncertainty with respect to the value of patents, once obtained. Depending on decisions by the U.S. Congress, the federal courts and the USPTO, the laws and regulations governing patents could change in unpredictable ways that would weaken our ability to obtain new patents or to enforce our existing patents and patents that we might obtain in the future.

Issued patents covering our products and services could be found invalid or unenforceable if challenged.

The issuance of a patent is not conclusive as to its inventorship, scope, validity, or enforceability and some of our patents or patent applications, including licensed patents, may be challenged, in courts or patent offices in the U.S. and abroad. We or our collaborators may be subject to a third-party preissuance submission of prior art to the USPTO or be involved in opposition, derivation, revocation, reexamination, inter partes review, post-grant review or interference or other similar proceedings challenging our or our collaborators' patent rights. An adverse decision in any such submission, proceeding, or litigation could reduce the scope of, or invalidate or render unenforceable, such patent rights, allow third parties to commercialize our drugs or other technologies and compete directly with us, without payment to us or result in our inability to manufacture or commercialize products without infringing third-party patent rights. Additionally, if we and our licensing partners initiate or become involved in legal proceedings against a third party to enforce a patent covering one of our products or technologies, the defendant could counterclaim that the patent covering our product is invalid or unenforceable. In patent litigation in the U.S., counterclaims alleging invalidity or unenforceability are commonplace. Grounds for a validity challenge could be an alleged failure to meet any of several statutory requirements, including patent eligible subject matter, lack of novelty, obviousness or non-enablement. Grounds for an unenforceability assertion could be an allegation that someone connected with prosecution of the patent withheld relevant information from the USPTO, or made a misleading statement, during prosecution. In addition, the U.S. now awards patent priority to the first party to file a patent application, and others may submit patent claims covering our inventions prior to us. The outcome following legal assertions of invalidity and unenforceability is unpredictable. With respect to the validity question, for example, we cannot be certain that there is no invalidating prior art, of which we and the patent examiner were unaware during prosecution. A successful third-party challenge to our patents could result in the unenforceability or invalidity of such patents, which could have a material adverse impact on our business. Furthermore, if the breadth or strength of protection provided by our patents and patent applications is threatened, regardless of the outcome, it could dissuade companies from collaborating with us to license, develop or commercialize current or future products and services.

We may not be aware of all third-party IP rights potentially relating to our drug pipeline, products and services. Publications of discoveries in the scientific literature often lag behind the actual discoveries, and patent applications in the U.S. and other jurisdictions are typically not published until approximately 18 months after filing or, in some cases, not until such patent applications issue as patents. We might not have been the first to make the inventions covered by each of our pending patent applications and we might not have been the first to file patent applications for these inventions. To determine the priority of these inventions, we may have to participate in interference proceedings, derivation proceedings or other post-grant proceedings declared by the USPTO. The outcome of such proceedings is uncertain, and other patent applications may have priority over our patent applications. Such proceedings could also result in substantial costs to us and divert our management's attention and resources.

We may be subject to claims that our employees, consultants, or independent contractors have wrongfully used or disclosed confidential information of third parties or that our employees have wrongfully used or disclosed alleged trade secrets of their former employers.

We employ, and expect to employ in the future, individuals who were previously employed at universities or other companies, including our competitors or potential competitors. Although we try to ensure that our employees, consultants, and independent contractors do not use the proprietary information or know-how of others in their work for us, we may be subject to claims that our employees, consultants, or independent contractors have inadvertently or otherwise used or disclosed trade secrets or other proprietary information of their former employers or other third parties, or to claims that we have improperly used or obtained such trade secrets. Litigation may be necessary to defend against these claims. If we fail in defending such claims, in addition to paying monetary damages, we may lose valuable IP rights or personnel, which could adversely impact our business. A loss of key research personnel work product could hamper or prevent our ability to commercialize potential products and services, which could harm our business. Even if we are successful in defending against these claims, litigation could result in substantial costs and be a distraction to management and other employees.

We may not be able to protect and enforce our trademarks.

We have not yet registered certain of our trademarks in all of our potential markets, although we have registered 23andMe, and other 23andMe logos and product and service names in the U.S., the EU, and a number of other countries and are seeking to register additional trademarks. As we apply to register our unregistered trademarks in the U.S. and other countries, our applications may not be allowed for registration in a timely fashion or at all, and our registered trademarks may not be maintained or enforced. In addition, opposition or cancellation proceedings may be filed against our trademark applications and registrations, and our trademarks may not survive such proceedings. In certain countries outside of the U.S., trademark registration is required to enforce trademark rights. If we do not secure registrations for our trademarks, we may encounter more difficulty in enforcing them against third parties than we otherwise would.

We may be subject to claims challenging the inventorship or ownership of our patents and other IP.

We may be subject to claims that former employees, collaborators or other third parties have an interest in our owned or in-licensed patents, trade secrets or other IP as an inventor or co-inventor. Ownership disputes may arise, for example, from conflicting obligations of employees, consultants or others who are involved in developing our future products and services.

Litigation may be necessary to defend against these and other claims by a third party challenging inventorship of our or our licensors' ownership of our owned or in-licensed patents, trade secrets or other IP. If we or our licensors fail in defending any such claims, in addition to paying monetary damages, we may lose valuable IP rights, such as exclusive ownership of, or right to use, IP that is important to our product or services. Alternatively, we may need to obtain one or more additional licenses from the third party which will be time-consuming and expensive and could result in substantial costs and diversion of resources and could have a material adverse effect on our business. Even if we are successful in defending against such claims, litigation could result in substantial costs and be a distraction to management and other employees. Any of the foregoing could have a material adverse effect on our business, financial condition, results of operations and prospects.

If we become involved in patent litigation or other proceedings related to a determination of rights, we could incur substantial costs and expenses, substantial liability for damages or be required to stop our development and commercialization efforts of our products and services.

There is a substantial amount of litigation, both within and outside the U.S., involving patent and other IP rights in, for example, the life sciences, clinical diagnostics and drug discovery industries, including patent infringement lawsuits, declaratory judgment litigation and adversarial proceedings before the USPTO, including interferences, derivation proceedings, ex parte reexaminations, post-grant review and inter partes review, as well as corresponding proceedings in foreign courts and foreign patent offices.

We may, in the future, become involved with litigation or actions at the USPTO or foreign patent offices with various third parties. We expect that the number of such claims may increase as our industry expands, more patents are issued, the number of products or services increases and the level of competition in our industry increases. Any infringement claim, regardless of its validity, could harm our business by, among other things, resulting in time-consuming and costly litigation, diverting management's time and attention from the development of our business, requiring the payment of monetary damages (including treble damages, attorneys' fees, costs, and expenses), or royalty payments.

It may be necessary for us to pursue litigation or adversarial proceedings before the patent office to enforce our patent and proprietary rights or to determine the scope, coverage, and validity of the proprietary rights of others. The outcome of any such litigation might not be favorable to us, and even if we were to prevail, such litigation could result in substantial costs and diversion of resources and could have a material adverse effect on our business, operating results, or financial condition.

As we move into new markets and expand our products or services offerings, incumbent participants in such markets may assert their patents and other proprietary rights against us as a means of slowing our entry into such markets or as a means to extract substantial license and royalty payments from us. In addition, future litigation may involve patent holding companies or other adverse patent owners who have no relevant product or service revenue and against whom our own patents may provide little or no deterrence or protection.

Because patent applications can take many years to issue, there may be currently pending patent applications which may later result in issued patents that our current or future products, technologies and services may infringe. We cannot be certain that we have identified or addressed all potentially significant third-party patents in advance of an infringement claim being made against us. In addition, similar to what other companies in our industry have experienced, we expect our competitors and others may have patents or may in the future obtain patents and claim that making, having made, using, selling, offering to sell or importing our products or services infringes these patents. Defense of infringement and other claims, regardless of their merit, would involve substantial litigation expense and would be a substantial diversion of management and employee resources from our business. Parties making claims against us may be able to sustain the costs of complex patent litigation more effectively than we can because they have substantially greater resources. Parties making claims against us may be able to obtain injunctive or other relief, which could block our ability to develop, commercialize and sell products or services and could result in the award of substantial damages against us, including treble damages, attorney's fees, costs, and expenses if we are found to have willfully infringed. In the event of a successful claim of infringement against us, we may be required to pay damages and ongoing royalties and obtain one or more licenses from third parties, or be prohibited from selling certain products or services. We may not be able to obtain these licenses on acceptable or commercially reasonable terms, if at all, or these licenses may be non-exclusive, which could result in our competitors gaining access to the same IP. In addition, we could encounter delays in product or service introductions while we attempt to develop alternative products or services to avoid infringing third-party patents or proprietary rights. Defense of any lawsuit or failure to obtain any of these licenses could prevent us from commercializing products or services, and the prohibition of sale of any of our products or services could materially affect our business and our ability to gain market acceptance for our products or services.

Furthermore, because of the substantial amount of discovery required in connection with IP litigation, there is a risk that some of our confidential information could be compromised by disclosure during this type of litigation. In addition, during the course of this kind of litigation, there could be public announcements of the results of hearings, motions or other interim proceedings or developments. If securities analysts or investors perceive these results to be negative, it could have a substantial adverse effect on the price of our Class A common stock.

In addition, our agreements with some of our customers, patients, suppliers or other entities with whom we do business require us to defend or indemnify these parties to the extent they become involved in infringement claims, including the types of claims described above. We could also voluntarily agree to defend or indemnify third parties in instances where we are not obligated to do so if we determine it would be important to our business relationships. If we are required or agree to defend or indemnify third parties in connection with any infringement claims, we could incur significant costs and expenses that could adversely affect our business, operating results, or financial condition.

Patent terms may be inadequate to protect our competitive position on our products and services for an adequate amount of time.

Patents have a limited lifespan. In the U.S., if all maintenance fees are timely paid, the natural expiration of a patent is generally 20 years from its earliest U.S. non-provisional filing date. Various extensions may be available, but the life of a patent, and the protection it affords, is limited. Even if patents covering our products and services are obtained, once the patent life has expired, we may be open to competition from competitive products. Given the amount of time required for the development, testing and regulatory review of new products and services, patents protecting such products and services might expire before or shortly after such products and services are commercialized. As a result, our owned and licensed patent portfolio may not provide us with sufficient rights to exclude others from commercializing products similar or identical to ours.

We may not obtain patent term extension and data exclusivity for our drugs.

Depending upon the timing, duration and details of any FDA marketing approval of any drugs, our U.S. patents may be eligible for limited patent term extension under the Drug Price Competition and Patent Term Restoration Act of 1984 (Hatch-Waxman Act), which permits a maximum of five years of patent term extension to account for patent term lost during FDA regulatory review. The extended patent term must not extend 14 years beyond the date of product approval, and may be used to extend only one patent and may be only used to extend a patent with claims covering the approved drug, a method of using it or a method of manufacturing the drug. Similar extensions are available in other foreign jurisdictions outside of the U.S., such as Supplemental Patent Certificates in Europe. Such extensions may not be granted in situations where there is a failure to exercise due diligence during the testing phase or regulatory review phase, failure to apply within the deadline, failure to apply prior to expiration of the relevant patent, or failure to satisfy the applicable requirements. In addition, the term of patent extension that is granted may be less than is requested. Failure to obtain patent term extension, allows our competitors to obtain approval of competing products following our patent expiration, and may harm our business and financial and growth prospects.

We may not be successful in obtaining, through acquisitions or otherwise, accessory rights to our drugs.

As other biotechnology and pharmaceutical companies and academic entities are competing with us, they may have patents or have filed and are likely filing patent applications potentially relevant to our business. We may find it necessary to obtain licenses to such patents from such third parties to avoid infringing on these third-party patents. The licensing of these third-party patents may be competitive and if we are unable to successfully obtain such rights, we may have to abandon development of the drug which may affect our business and financial and growth prospects.

We utilize open-source software, which may pose particular risks to our proprietary software and source code.

We use open-source software in our proprietary software and will use open-source software in the future. Companies that incorporate open-source software into their proprietary software and products have, from time to time, faced claims challenging the use of open-source software and compliance with open-source license terms. Some licenses governing the use of open-source software contain requirements that we make available source code for modifications or derivative works we create based upon the open-source software, and that we license such modifications or derivative works under the terms of a particular open-source license or other license granting third parties certain rights of further use. By the terms of certain open-source licenses, we could be required to release the source code of our proprietary software, and to make our proprietary software available under open-source licenses to third parties at no cost, if we combine our proprietary software with open-source software in certain manners. Although we monitor our use of open-source software, we cannot assure you that all open-source software is reviewed prior to use in our software, that our developers have not incorporated open-source software into our proprietary software, or that they will not do so in the future. Additionally, the terms of many open-source licenses to which we are subject have not been interpreted by U.S. or foreign courts. There is a risk that open-source

software licenses could be construed in a manner that imposes unanticipated conditions or restrictions on our ability to market or provide our proprietary software. Companies that incorporate open-source software into their products have, in the past, faced claims seeking enforcement of open-source license provisions and claims asserting ownership of open-source software incorporated into their proprietary software. If an author or other third party that distributes such open-source software were to allege that we have not complied with the conditions of an open-source license, we could incur significant legal costs defending ourselves against such allegations. In the event such claims were successful, we could be subject to significant damages or be enjoined from the distribution of our proprietary software. In addition, the terms of open-source software licenses may require us to provide software that we develop using such open-source software to others on unfavorable license terms. As a result of our current or future use of open-source software, we may face claims or litigation, be required to release our proprietary source code, pay damages for breach of contract, re-engineer our proprietary software, discontinue making our proprietary software available in the event re-engineering cannot be accomplished on a timely basis, discontinue certain aspects or functionality of our PGS, or take other remedial action. Any such re-engineering or other remedial efforts could require significant additional research and development resources, and we may not be able to successfully complete any such re-engineering or other remedial efforts. Further, in addition to risks related to license requirements, use of certain open-source software can lead to greater risks than use of third-party commercial software, as open-source licensors generally do not provide warranties or controls on the origin of the software. Any of these risks could be difficult to eliminate or manage, and, if not addressed, could have a negative effect on our business, financial condition, and results of operations.

Risks Related to Financial Reporting and Results of Operations

If we fail to maintain effective internal control over financial reporting or experience material weaknesses in the future, our ability to produce timely and accurate financial statements could be impaired, which may adversely affect our business.

As a public company, we are subject to the reporting requirements of the Exchange Act, the Sarbanes-Oxley Act, and the rules and regulations of the applicable listing standards of Nasdaq. These rules and regulations require, among other things, that we establish and periodically evaluate procedures with respect to our internal control over financial reporting. In addition, the Sarbanes-Oxley Act and related rules and regulations require that management report annually on the effectiveness of our internal control over financial reporting and our independent registered public accounting firm attest to the effectiveness of our internal control over financial reporting.

We previously reported a material weakness related to a lack of sufficient resources in our finance function through March 31, 2022, which has been remediated as of March 31, 2023. Although we determined that our internal control over financial reporting is effective as of March 31, 2023, there can be no assurance that our internal control over financial reporting will be effective in the future. We may in the future identify internal control deficiencies that could rise to the level of a material weakness or uncover other errors in financial reporting. Notwithstanding our efforts, there can be no assurance that we will be able to successfully remediate any such material weaknesses or errors in financial reporting. In addition, we cannot assure you that our independent registered public accounting firm will be able to attest that such internal controls are effective when they are required to do so. If we fail to remediate any future material weaknesses and maintain effective disclosure controls and procedures or internal control over financial reporting, investors may not be able to rely on the integrity of our financial results, which could result in inaccurate or late reporting of our financial results, as well as delays or the inability to meet our reporting obligations or to comply with the rules and regulations of the Securities and Exchange Commission. Any of these could result in delisting actions by Nasdaq, investigation and sanctions by regulatory authorities, stockholder investigations and lawsuits, and could adversely affect our business.

Our quarterly operating results may fluctuate significantly.

Our quarterly operating results may fluctuate significantly due to seasonality and other factors, some of which are beyond our control, including negative publicity relating to our products and services, changes on customer and patient preferences, and competitive conditions, resulting in a decline in the price of our Class A common stock. Any fluctuation in our operating results, especially if below the expectations of securities analysts, could adversely affect the market price of our securities. Any reduction in the market price of our securities could make it more difficult for us to raise additional funds through future offerings of shares of Class A common stock or other securities.

Our ability to use our net operating loss carryforwards may be subject to limitations.

As of March 31, 2023, we had approximately \$1.0 billion of federal net operating loss carryforwards available to reduce future taxable income, which will begin to expire in 2026. Realization of any tax benefit from our carryforwards is dependent on our ability to generate future taxable income and the absence of certain “ownership changes” of our Class A common stock. An “ownership change,” as defined in the applicable federal income tax rules, could place significant limitations, on an annual basis, on the amount of our future taxable income that may be offset by our carryforwards. Such limitations, in conjunction with the net operating loss expiration provisions, could effectively eliminate our ability to utilize a substantial portion of our carryforwards. We have conducted a preliminary study as of March 31, 2023 and no tax attributes are anticipated to expire due to a Section 382 limitation.

We have incurred significant losses since inception, we expect to incur losses in the future, and we may not be able to generate sufficient revenue to achieve and maintain profitability.

We have incurred significant losses since our inception. For the fiscal years ended March 31, 2023, 2022, and 2021, we incurred net losses of \$311.7 million, \$217.5 million, and \$183.6 million, respectively. As of March 31, 2023, we had an accumulated deficit of \$1.5 billion. We expect to incur substantial operating losses in future periods.

We expect to continue to incur significant expenses and operating losses for the foreseeable future as we continue to expand therapeutic research and development efforts, develop drugs with collaborators or on our own, enhance our existing consumer products, services and business model, broaden our customer base, work with the FDA and other regulatory agencies, and hire additional employees to support our growth. Historically, we have devoted most of our financial resources to the research and development of our PGS, as well as our Therapeutics business, which we launched in 2015. The discovery and development of safe and effective therapies is a complex and uncertain process, which takes many years and involves significant costs. We may not succeed in increasing our revenues, which historically have been reliant on sales of our PGS, in a manner that will be sufficient to offset these higher expenses. Any failure to increase our revenues as we implement initiatives to grow our business could prevent us from achieving profitability. We cannot be certain that we will be able to achieve profitability on a quarterly or annual basis. If we are unable to address these risks and difficulties as we encounter them, our business, financial condition, and results of operations may suffer.

We have incurred and will continue to incur significant costs as a result of being a public company.

As a public company, we are subject to enhanced internal controls standards. We have incurred and will continue to incur significant legal, accounting, insurance and other costs not incurred as a private company. The Sarbanes-Oxley Act and related rules and regulations of the SEC and Nasdaq regulate the corporate governance practices of public companies. Compliance with these requirements has increased and will continue to increase our expenses and make some activities more time-consuming than they have been in the past when we were a private company. Such additional costs going forward could negatively affect our financial results.

Our reported financial results may be adversely affected by changes in accounting principles generally accepted in the U.S.

Generally accepted accounting principles in the U.S. are subject to interpretation by the Financial Accounting Standards Board (“FASB”), the American Institute of Certified Public Accountants, the SEC, and various bodies formed to promulgate and interpret appropriate accounting principles. Any change in these principles or interpretations could have a significant effect on our reported financial results, and could affect the reporting of transactions completed before the announcement of a change.

We are subject to changing law and regulations regarding regulatory matters, corporate governance, and public disclosure that have increased our costs and the risk of non-compliance.

We are subject to rules and regulations by various governing bodies, including, for example, the SEC, which are charged with the protection of investors and the oversight of companies whose securities are publicly traded, and to new and evolving regulatory measures under applicable law. Our efforts to comply with new and changing laws and regulations have resulted in increased general and administrative expenses and a diversion of management time and attention.

Moreover, because these laws, regulations, and standards are subject to varying interpretations, their application in practice may evolve over time as new guidance becomes available. This evolution may result in continuing uncertainty regarding compliance matters and additional costs necessitated by ongoing revisions to our disclosure and governance practices. If we fail to address and comply with these regulations and any subsequent changes, we may be subject to penalty and our business may be harmed.

Climate change, environmental, social, and governance, and sustainability initiatives may result in regulatory or structural industry changes that could require significant operational changes and expenditures, reduce demand for the Company’s products and adversely affect our business, financial condition, and results of operations.

Climate change, ESG, and sustainability are a growing global movement. These matters have garnered continuous political and social attention leading to the introduction of national, regional, and local legislation, regulatory requirements, reporting obligations, and policy changes. Further, there is a growing societal demand to limit greenhouse gas emissions and support global initiatives. Compliance with these international agreements and measures may necessitate operational changes, impose taxes, or require purchases of emission credits, leading to significant capital expenditures. Furthermore, future legislative, regulatory, or policy changes may emerge that require additional modifications to reduce greenhouse gas emissions from our operations, which may result in substantial capital expenditures.

The growing focus on climate change, ESG, and sustainability has led to government investigations and litigation, both public and private, which may result in increased costs or adverse effects on our business or financial results. Furthermore, entities that offer investors information regarding corporate governance and similar issues have developed rating systems for assessing companies on their ESG approach. Some investors use these ratings to inform their investment and voting decisions. If we receive unfavorable ESG ratings, it may lead to a rise in negative investor sentiment towards us, which could harm our securities' price and our ability to access capital at reasonable costs.

Any or all of these ESG and sustainability initiatives may result in significant operational changes and expenditures, cause us reputational harm, and could materially adversely affect our business, financial condition, and results of operations.

Risks Related to Ownership of Our Class A Common Stock

Our Certificate of Incorporation designates a state or federal court located within the State of Delaware as the sole and exclusive forum for substantially all disputes between us and our stockholders, which could limit our stockholders' ability to obtain a favorable judicial forum for disputes with us or our directors, officers, stockholders, employees, or agents. Our Second Amended and Restated Bylaws designate the United States federal district courts as the exclusive forum for the resolution of actions asserting claims arising under the Securities Act of 1933, as amended.

Our Certificate of Incorporation provides that, unless we consent in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware shall be the sole and exclusive forum for (i) any derivative action or proceeding brought on behalf of us, (ii) any action asserting a claim of breach of a fiduciary duty owed by any of our current or former directors, officers, employees, or agents to us or our stockholders, (iii) any action arising pursuant to any provision of the Delaware General Corporation Law (the "DGCL") or our Certificate of Incorporation or Second Amended and Restated Bylaws (the "Bylaws") (as either may be amended from time to time), or (iv) any action asserting a claim against us governed by the internal affairs doctrine. The forgoing provisions do not apply to any claims arising under the Securities Act of 1933, as amended (the "Securities Act"). As provided for in the Bylaws, unless we consent in writing to the selection of an alternative forum, the federal district courts of the United States will be the sole and exclusive forum for resolving any action asserting a claim arising under the Securities Act.

These choice of forum provisions may limit a stockholder's ability to bring a claim in a judicial forum that it finds favorable for disputes with us or any of our directors, officers, or other employees, which may discourage lawsuits with respect to such claims. There is uncertainty as to whether a court would enforce such provisions, and the enforceability of similar choice of forum provisions in other companies' charter documents has been challenged in legal proceedings. It is possible that a court could find these types of provisions to be inapplicable or unenforceable, and if a court were to find our choice of forum provisions inapplicable or unenforceable in an action, we may incur additional costs associated with resolving such action in other jurisdictions, which could harm our business, results of operations, and financial condition.

The dual class structure of our common stock has the effect of concentrating voting control with Anne Wojcicki, our Chief Executive Officer, Co-Founder, and Chair, which will limit stockholders' ability to influence the outcome of important decisions.

As of March 31, 2023, Ms. Wojcicki beneficially owned 98,633,827 of our 168,179,488 outstanding shares of Class B common stock and 3,125,291 of our 293,020,474 outstanding shares of Class A common stock. Each share of Class B common stock is entitled to ten votes per share, and each share of Class A common stock is entitled to one vote per share. Accordingly, the combined voting power of the shares of Class A common stock and the shares of Class B common stock beneficially owned by Ms. Wojcicki as of March 31, 2023 was approximately 50.1%. Consequently, Ms. Wojcicki is able to exert substantial influence over and control matters requiring approval by stockholders, including the election of directors, increasing our authorized capital stock, or a merger or sale of substantially all of our assets.

Pursuant to our Certificate of Incorporation, all shares of Class B common stock are convertible into shares of Class A common stock at any time at the option of the holder and cannot be sold in the market without being converted into Class A common stock. Each conversion or sale of an outstanding share of Class B common stock automatically reduces the number of outstanding shares of Class B common stock and thereby automatically increases the voting power of the remaining shares of Class B common stock. If a holder of Class B common stock voluntarily converts its shares into shares of Class A common stock or sells its shares of Class B common stock, the voting power of the remaining holders of Class B common stock will automatically increase. Accordingly, Ms. Wojcicki's voting power may automatically increase solely as a result of other holders of Class B common stock converting or selling their shares.

We have not elected to take advantage of the available exemptions under the Nasdaq Listing Rules for controlled companies but may do so in the future.

Because our Chief Executive Officer, Co-Founder, and Chair, Anne Wojcicki, beneficially owns shares representing in excess of 50% of the voting power of our outstanding capital stock, we are considered a “controlled company” under applicable Nasdaq Listing Rules and are eligible to utilize certain available corporate governance exemptions. We have not elected and do not intend to elect to use such exemptions. However, if we decide to rely on the “controlled company” exemption in the future, then we would not be required to have a majority of our board of directors be independent, nor would we be required to have an independent compensation committee or an independent nominating function. If we were to choose to avail ourselves of the “controlled company” exemption in the future, our Class A common stock may be considered less attractive to certain investors and/or the trading price of our Class A common stock could be harmed.

We cannot predict the impact our dual class structure may have on the market price of our Class A common stock.

We cannot predict whether our dual class structure, combined with the concentrated voting power of our Chief Executive Officer, Co-Founder, and Chair, Anne Wojcicki, will result in a lower or more volatile market price of our Class A common stock or in adverse publicity or other adverse consequences. Certain index providers have announced restrictions on including companies with multiple-class share structures in certain of their indexes. For example, in July 2017, FTSE Russell and Standard & Poor’s announced that they would cease to allow most newly public companies utilizing dual or multi-class capital structures to be included in their indices. Under the announced policies, our dual class capital structure would make us ineligible for inclusion in any of these indices. Given the sustained flow of investment funds into passive strategies that seek to track certain indexes, exclusion from stock indexes would likely preclude investment by many of these funds and could make our Class A common stock less attractive to other investors. As a result, the market price of our Class A common stock could be adversely affected.

Item 1B. Unresolved Staff Comments

None.

Item 2. Properties

Our corporate headquarters is located in South San Francisco, California, and consists of approximately 65,340 square feet of space under a lease that expires on January 31, 2027. We also lease approximately 154,987 square feet of office space in Sunnyvale, California, under a lease that expires on July 31, 2031. We use these facilities for communications, engineering, finance, healthcare operations, information technology and security, legal, marketing, human resources, product, research and science, supply chain, and other administrative functions. We also conduct our therapeutics research and development in our laboratory facilities located in the South San Francisco location.

Item 3. Legal Proceedings

From time to time, we are party to litigation and subject to claims incident to the ordinary course of business. As our growth continues, we may become party to an increasing number of litigation matters and claims. The outcome of litigation and claims cannot be predicted with certainty, and the resolution of these matters could materially affect our future results of operations, cash flows, or financial position. We are not presently party to any legal proceedings that, in the opinion of management, if determined adversely to us, would individually or taken together have a material adverse effect on our business, operating results, financial condition, or cash flows.

As previously disclosed, on December 10, 2019, Celmatix Inc. (“Celmatix”) filed a lawsuit in the Supreme Court of the State of New York against us (Index No. 657329/2019) asserting claims against us for breach of contract and the implied covenant of good faith and fair dealing and tortious interference with contract and prospective economic advantage, alleging damages that, according to the compliant, plaintiff “believed to be in excess of \$100 million.” On February 14, 2020, we filed its answer, denying all of the material allegations of the complaint and asserting counterclaims against Celmatix for breach of contract. Celmatix amended its complaint on July 13, 2021, asserting an additional claim against us for fraudulent inducement of contract. On July 19, 2021, we filed its answer to the amended complaint, denying all of the material allegations and asserting a counterclaim and an additional defense of fraudulent inducement of contract. On October 29, 2021, both parties made motions for partial summary judgment in their favor. Briefing of the parties’ respective motions was completed in December 2021. On March 30, 2022, both parties agreed to a settlement, pursuant to which we made a payment of \$10.0 million net of insurance coverage and all claims and counter-claims were released. The parties filed a

Stipulation of Dismissal and Discontinuance with Prejudice on April 22, 2022. On April 25, 2022, the presiding judge entered an order noting that the motions for summary judgment are moot, canceling all future appearances and marking the case as disposed.

Item 4. Mine Safety Disclosures

Not Applicable.

PART II

Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

Market Information

Our Class A common stock is traded on the Nasdaq Global Select Market ("Nasdaq") under the symbol "ME".

Holders

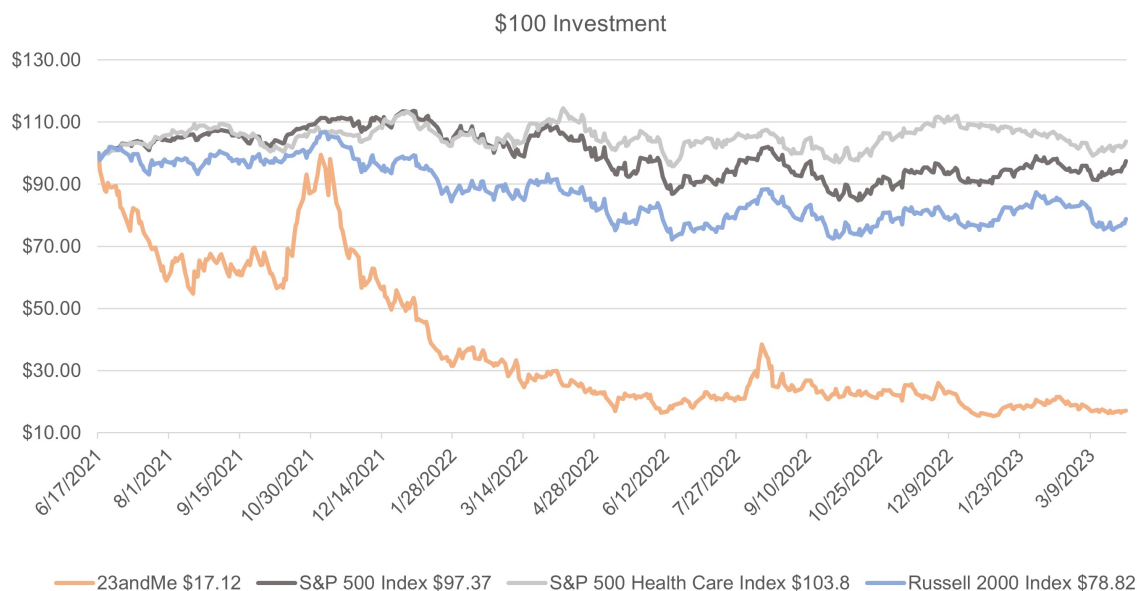
As of May 22, 2023, there were 187 holders of record of our Class A common stock and 97 holders of record of our Class B common stock. Because many of our shares of Class A common stock are held by brokers and other institutions on behalf of stockholders, we are unable to estimate the total number of stockholders represented by these record holders. However, we believe that a substantially greater number of beneficial owners hold shares of Class A common stock through brokers, banks, or other nominees.

Dividends

We have not paid any cash dividends on our Class A common stock to date. The payment of any cash dividends is within the discretion of our Board and our Board does not currently contemplate declaring any dividends in the foreseeable future.

Stock Performance Graph

The following graph compares the cumulative total return to stockholders on our Class A common stock relative to the cumulative total returns of the S&P 500 Index, the S&P 500 Health Care Sector Index, and the Russell 2000 Index. An investment of \$100 (with reinvestment of all dividends) is assumed to have been made in our Class A common stock and in each index on June 17, 2021, the date our Class A common stock began trading on the Nasdaq, and its relative performance is tracked through March 31, 2023. The returns shown are based on historical results and are not intended to suggest future performance.



Item 6. [Reserved]

Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

This Management's Discussion and Analysis of Financial Condition and Results of Operations should be read in conjunction with the consolidated financial statements and accompanying notes included in Part II, Item 8 of this Form 10-K. This discussion may contain forward-looking statements based upon current expectations that involve risks and uncertainties. Our actual results may differ materially from those anticipated in these forward-looking statements as a result of various factors, including those set forth under Part I, Item 1A. "Risk Factors" or in other parts of this Form 10-K. Unless the context otherwise requires, references in this Management's Discussion and Analysis of Financial Condition and Results of Operations to the "Company," "23andMe," "we," "us," and "our" refer to 23andMe Holding Co., a Delaware corporation formerly known as VG Acquisition Corp. and its consolidated subsidiaries. References to VG Acquisition Corp. or "VGAC" refer to the Company prior to the consummation of the Business Combination.

The following section generally discusses our financial condition and results of operations for our fiscal year ended March 31, 2023 ("fiscal 2023") compared to our fiscal year ended March 31, 2022 ("fiscal 2022"). A discussion regarding our financial condition and results of operations for fiscal year 2022 compared to our fiscal year ended March 31, 2021 ("fiscal 2021") can be found in Part II, Item 7 of our Annual Report on Form 10-K for fiscal year 2022, filed with the SEC on May 27, 2022, as amended by Amendment No. 1 on Form 10-K/A filed with the SEC on August 9, 2022 (the "fiscal 2023 Form 10-K").

Overview

Our mission is to help people access, understand, and benefit from the human genome. To achieve this, we are building the leading direct-to-consumer precision medicine platform that powers our genetics driven therapeutics and research business.

We are dedicated to empowering customers to live healthier lives by providing consumers direct access to their genetic information, and digital access to affordable personalized healthcare through our Lemonaid Health telehealth platform.

We pioneered direct-to-consumer genetic testing, giving consumers unique, personalized information about their genetic health risks, ancestry, and traits. We were the first company to obtain FDA authorization for a direct-to-consumer genetic test, and we are the only company to have FDA authorization, clearance, or an exemption from premarket notification for all of the carrier status, genetic health risk, cancer predisposition, and pharmacogenetics reports that we offer to customers. As of March 31, 2023, we had over 60 health and carrier status reports that were available to customers in the U.S.

Through our Lemonaid Health telehealth platform, we connect patients to licensed healthcare professionals to provide affordable and direct online access to medical care, from consultation through treatment, for a number of common conditions, using evidence-based guidelines and up-to-date clinical protocols. When medications are prescribed by Lemonaid Health's affiliated healthcare professionals, patients can use Lemonaid Health's online pharmacy for fulfillment. Patients also can access telehealth consultations for certain 23andMe genetic reports through Lemonaid.

We believe that we can revolutionize research through our premier database of genetic and phenotypic information crowdsourced from our millions of engaged customers. We have built the world's largest crowdsourced platform for genetic research, with over 80% of our customers electing to participate in our research program. We believe that this platform allows us to accelerate research at an unprecedented scale, enabling us to discover insights into the origins of diseases and to speed the discovery and development of novel therapies.

We are developing a broad portfolio of genetically validated therapeutic candidates for a variety of diseases across different therapeutic areas with high unmet medical need. We have a diversified and differentiated portfolio, including one product candidate in clinical development, as well as more than twenty preclinical therapeutic programs. Each of our programs has been validated through our human genetics drug discovery platform. We believe the combination of a genetically validated discovery platform, to increase the probability of technical success, and a maturing therapeutic portfolio will position us for long-term success in our goal to advance next-generation, targeted medicines for people living with serious and life-threatening diseases.

Our Therapeutics business focuses on the use of genetic insights to validate and develop novel therapies to improve patients' lives. We currently have research programs across several therapeutic areas, including oncology, respiratory, and cardiovascular diseases. In July 2018, we signed an exclusive agreement with an affiliate of GlaxoSmithKline plc ("GSK") to leverage genetic insights to validate,

rapidly progress development, and commercialize useful new drugs to market (the “GSK Agreement”). The exclusive target discovery portion of the GSK agreement will end in July 2023 while the collaboration portion for our jointly developed programs continues. After July 2023, we will be able to pursue new target discovery collaborations with other parties that leverage our extensive database, maturing capabilities and successful drug discovery track record through our work with GSK. We will continue to collaborate with GSK on a number of ongoing programs per the GSK agreement. In addition to our collaboration with GSK, we have several proprietary programs. Our previously disclosed collaboration with Almirall, S.A. was terminated effective as of February 27, 2023.

Our first joint immuno-oncology antibody collaboration program with GSK targeting CD96 (GSK6097608, or GSK’608) entered clinical trials in 2020. We elected to take a royalty option on the program per the terms of the GSK Agreement. GSK will be solely responsible for GSK’608’s subsequent development in later-stage clinical trials, including full development costs moving forward, except as previously agreed with GSK. Our second most advanced program, 23ME-00610, is an antibody that blocks CD200R1 to inhibit the suppression of T-cells by tumors to reactivate their immune response. 23ME-00610 is wholly owned by us, and this program entered Phase 1 clinical trials in January 2022 and has recently started the Phase 2a portion of the study. For any other wholly owned programs or any programs as to which GSK has exercised its option to opt out and elected to take a royalty option, we have the opportunity to collaborate with, or out-license such programs to, third parties or to develop them independently.

We operate in two reporting segments: (1) Consumer and Research Services and (2) Therapeutics. The Consumer and Research Services segment consists of our PGS and telehealth business, as well as research services that we perform under agreements with third parties, including the GSK Agreement, relating to the use of our genotypic and phenotypic data to identify promising drug targets. The Therapeutics segment consists of revenues from the out-licensing of intellectual property associated with identified drug targets and expenses related to therapeutic product candidates under clinical development. For fiscal 2023 and fiscal 2022, all our revenues were derived from our Consumer and Research Services segment.

The table below reflects our revenue and Adjusted EBITDA (as defined below) by segment:

	<u>Year Ended March 31,</u>		<u>\$ Change</u>	<u>% Change</u>
	<u>2023</u>	<u>2022</u>		
	(in thousands, except percentages)			
Revenue: ⁽¹⁾				
Consumer and Research Services	\$ 299,489	\$ 271,893	\$ 27,596	10%
Adjusted EBITDA: ⁽²⁾				
Consumer and Research Services	\$ (17,997)	\$ (30,112)	\$ 12,115	(40%)
Therapeutics	\$ (88,503)	\$ (76,944)	\$ (11,559)	15%

(1) There was no revenue from our Therapeutics segment for all periods presented.

(2) Adjusted EBITDA is a non-GAAP measure and is the measure of segment profitability reported to our Chief Executive Officer (“CEO”), who is our chief operating decision-maker (“CODM”). We define Adjusted EBITDA as net income (loss) before net interest income (expense), net other income (expense), income tax expenses (benefit), depreciation and amortization, impairment charges, stock-based compensation expense, acquisition-related costs, and other items that are considered unusual or not representative of underlying trends of our business, including but not limited to: changes in fair value of warrant liabilities, litigation settlement, and restructuring and other charges, if applicable for the periods presented. See “—Adjusted EBITDA” below for a reconciliation of Adjusted EBITDA to net loss.

Key Factors Affecting Results of Operations

We believe that our performance and future success depend on several factors that present significant opportunities for us but also pose risks and challenges, including those set forth in Part I, Item 1A., “Risk Factors,” of this Form 10-K.

New Customer Acquisition

PGS. Our ability to attract new customers is a key factor for the future growth of our PGS business and our database. Our historical financial performance has largely been driven by the rate of sales of our PGS kits. Revenue from our PGS business, primarily composed of kit sales, represented approximately 68% and 75% of our total revenues for fiscal 2023 and fiscal 2022, respectively. In addition, kit sales are a source of subscribers to our subscription service, which represented approximately 5% and 3% of our total revenue for fiscal 2023 and fiscal 2022, respectively. We expect PGS revenues to grow through a combination of kit sales, our subscription service, and new product offerings that enhance or add new product features. This will be achieved by increasing awareness of our current and new offerings in existing markets and expanding into new markets.

Purchasing patterns of our kits are largely influenced by product innovation, marketing spend, and varying levels of price discounting on our products. These promotional windows have typically aligned with gift-giving portions of the year, with an emphasis on the holiday period, other gift-giving and family-oriented holidays such as Mother's Day and Father's Day, and major Amazon sales events such as Prime Day, which may change from year to year. Historically, we have experienced higher revenue in the fourth quarter of the fiscal year compared to other quarters. Over time, we expect the seasonality of our business to continue, with pronounced increases in revenue recognized in the fourth fiscal quarter. We generally incur higher sales and marketing expenses during holiday promotional periods, which have included, among others, Mother's Day, Father's Day, the November-December holidays, and major Amazon sales events such as Prime Day, which may change from year to year.

Telehealth. Our ability to attract new patients and members is a key factor for the future growth of our telehealth business. Revenue from our telehealth business represented approximately 15% and 7% of our total revenue for fiscal 2023 and fiscal 2022, respectively. Telehealth awareness, acceptance, and usage have been positively impacted by the COVID-19 pandemic, leading to increased consumer acceptance of virtual care. While we anticipate continued growth, there are many participants in the telehealth market, including new entrants and traditional health care systems offering virtual care, and competition is intense.

Engagement of Research Participants

Our ability to conduct research and grow our database of genotypic and phenotypic information depends on our customers' willingness to consent to participate in our research. Over 80% of our customers have consented to participate in research. These customers permit us to use their de-identified data in our research and many of them regularly respond to our research surveys, providing us with phenotypic data in addition to the genetic data in their DNA samples. We analyze this genotypic and phenotypic data and conduct genome-wide association studies and phenome-wide association studies, which enable us to determine whether particular genetic variants affect the likelihood of individuals developing certain diseases.

Our customers can withdraw their consent to participate in research at any time. If a significant number of our customers were to withdraw their consent, or if the percentage of consenting customers were to decline significantly in the future, our ability to conduct research successfully could be diminished, which could adversely affect our business.

Drug Target Productivity of Our Genetics Database

Our genetics database underpins our research programs and enables us to identify drug targets with novel genetic evidence. As of March 31, 2023, we had identified over 50 drug targets. We expect the current productivity of our genetics database to continue based on the increasing amounts of data that we expect to result from increased kit sales and customer engagement. Any significant decline in such productivity would have a negative impact on our ability to identify drug targets and ultimately to develop and commercialize new drugs.

Development of Therapeutic Product Candidates

Our ability to successfully identify and develop therapeutic product candidates will determine the success of our Therapeutics business over time. Developing therapeutic product candidates with novel genetic evidence requires a significant investment of resources over a prolonged period of time, and a core part of our strategy is to continue making sustained investments in this area. As of March 31, 2023, we had over 50 programs in our pipeline in various stages of research and development that have been selected and are being pursued.

For the therapeutic product candidate GSK6097608, our first joint immuno-oncology antibody program with GSK, we have elected to take a royalty option, and GSK is solely responsible for continued clinical development. Our wholly-owned immuno-oncology antibody, 23ME-00610, entered Phase 1 clinical trials in January 2022 and has recently started the Phase 2a portion of the study. Additional programs are in research or preclinical stages of development. We have incurred, and will continue to incur, significant research and development costs for preclinical studies and clinical trials. We expect that our research and development expenses will continue to constitute a significant portion of our expenses in future periods.

Collaborations

Substantially all of our research services revenues are generated from the GSK Agreement. In January 2022, GSK elected to exercise its option to extend the exclusive target discovery period of the ongoing collaboration with us for an additional year to July 2023. In October 2022, we received a one-time payment of \$50.0 million from GSK in consideration of the exercise of the option pursuant to the GSK Agreement. In addition, we elected to take a royalty option on our joint immuno-oncology antibody collaboration program with GSK targeting CD96 (GSK6097608, or GSK'608). GSK will be solely responsible for GSK'608's subsequent development in later-stage clinical trials, including full development costs moving forward.

Our ability to enter into new collaboration agreements upon the expiration of the GSK Agreement in July 2023 will affect our research services revenues. If we are unable to enter into additional collaboration agreements, our future research services revenue may decline.

Ability to Commercialize Our Therapeutics Products

Our ability to generate revenue from our therapeutic product candidates depends on our and our collaborators' ability to successfully complete clinical trials for our therapeutic product candidates and receive regulatory approval, particularly in the United States, Europe, and other major markets.

We believe that our broad portfolio of therapeutic product candidates with novel genetic evidence and validated targets enhances the likelihood that our research and development efforts will yield successful therapeutic product candidates. Nonetheless, we cannot be certain if any of our therapeutic product candidates will receive regulatory approvals. Even if such approvals are granted, we will thereafter need to establish manufacturing and supply arrangements and engage in extensive marketing efforts and expenses prior to generating any revenue from such products. The ultimate commercial success of our products will depend on their acceptance by patients, the medical community, and third-party payors, their ability to compete effectively with other therapies in the market, and the appropriate pricing and reimbursement of the products by third-party payors.

The competitive environment is also an important factor with the commercial success of our therapeutic product candidates, and our ability to successfully commercialize a therapeutic product candidate will depend on whether there are competing therapeutic product candidates in development or already marketed by other companies.

Expansion into New Categories

We launched our 23andMe+ subscription service in October 2020, and through the Lemonaid Acquisition, we began providing access to telehealth services in November 2021. We expect to expand into new categories and innovative healthcare models with the goal of driving future growth. Those opportunities include product enhancements, such as our proprietary polygenic risk scores, new product offerings aimed at extending our personalized and customer-centric philosophy to primary healthcare, and potential additional acquisitions of other consumer-oriented healthcare businesses. Such expansion would allow us to increase the number of engaged customers who purchase or subscribe for additional products and services.

Success of our subscription service will depend upon our ability to acquire and retain subscribing customers over an extended period. Retention of customers will be based on the perceived value of the premium content and features they receive. If we are unable to provide sufficiently compelling new content and features, subscribers may not renew.

Similarly, the success of our telehealth business is dependent on our ability to attract and retain patients and members. Category expansion allows us to increase the number of patients to whom we can provide products and services. It also allows us to offer access to treatment of additional conditions that may already affect our current patients. Expanding into new categories will require financial investments in additional headcount, marketing and customer acquisition expenses, additional operational capabilities, and may require the purchase of new inventory. If we are unable to generate sufficient demand in new categories, we may not recover the financial investments we make into new categories and revenue may not increase in the future.

Investments in Growth and Innovation

Our research platform is based on a continually growing database of genotypic and phenotypic information. Our database allows us to conduct analyses in a broad-based fashion, by searching for genetic signatures of particular diseases or the likelihood of a particular genetic variant causing disease in a particular individual or group of individuals who share the same trait. Our platform enables us to rapidly and serially conduct studies across an almost unlimited number of conditions at unprecedented statistical power, yielding insights into the causes and potential treatments of a wide variety of diseases.

We believe that our research platform enables us to rapidly identify genetically validated drug targets with improved odds of clinical success. With our state-of-the-art bioinformatics capabilities, we analyze the trillions of data points in our database, optimizing the use of our resources, to genetically validate drug targets, inform patient selection for clinical trials, and increase the probability of success of our programs. We plan to advance new drugs through the rapid selection of those with compelling clinical promise.

We expect to continue investing in our business to capitalize on market opportunities and the long-term growth of our Company. We intend to make significant investments in therapeutics research and development efforts and in marketing to acquire new customers and drive brand awareness, and also expect to incur software development costs as we work to enhance our existing products, expand the depth of our subscription service, and design new offerings, including additional primary care offerings. In addition, we expect to

incur increased expenses associated with operating as a public company. The expenses we incur may vary significantly by quarter depending, for example, on when significant hiring takes place, and as we focus on building out different aspects of our business. We regularly evaluate our capital allocation approach to make sure our capital is being used for the highest value-creating activities and in the most efficient manner. This may require changes to investment levels, how we operate, or are structured to ensure alignment to business priorities.

Basis of Presentation

The consolidated financial statements and accompanying notes of the Company included elsewhere in this Form 10-K include the accounts of 23andMe Holding Co. and its consolidated subsidiaries and variable interest entities and were prepared in accordance with generally accepted accounting principles in the United States (“GAAP”). As 23andMe, Inc. is considered the Company’s accounting predecessor, certain historical financial information presented in the consolidated financial statements represents the accounts of 23andMe, Inc. and its wholly owned subsidiary.

As discussed above, we operate in two reporting segments: Consumer and Research Services, and Therapeutics. The Consumer and Research Services segment consists of our PGS and telehealth business, as well as research services that we perform under agreements with third parties, including the GSK Agreement, relating to the use of our genotypic and phenotypic data to identify promising drug targets. The Therapeutics segment consists of revenues from the out-licensing of intellectual property associated with identified drug targets and expenses related to therapeutic product candidates under clinical development. Substantially all our revenues are derived from our Consumer and Research Services segment.

Key Business Metrics

We monitor the following key metrics to help us evaluate our business, identify trends, formulate business plans, and make strategic decisions. We believe that the following metrics are useful in evaluating our business:

- **PGS Customers.** “Customers” means individuals who have registered a PGS kit and provided their DNA sample. We view Customers as an important metric to assess our financial performance because each Customer has registered a kit and has engaged with us by providing us with their DNA sample. These Customers may be interested in purchasing additional PGS products and services or in becoming subscribers to our 23andMe+ subscription service, especially if they consent to participate in our research. We had approximately 14.1 million and 12.8 million Customers as of March 31, 2023 and 2022, respectively.
- **Consenting Customers.** “Consenting Customers” are Customers who have affirmatively opted in to participate in our research program. Consenting Customers are critical to our research programs and to the continuing growth of our database, which we use to identify drug targets and to generate new and interesting additional ancestry and health reports. Moreover, Consenting Customers respond to our research surveys, providing useful phenotypic data about their traits, habits, and lifestyles, which we analyze using de-identified data to determine whether a genetic variant makes an individual more or less likely to develop certain diseases. A Consenting Customer is likely to be more engaged with our brand, which may lead to the purchase of our 23andMe+ subscription service and to participation in further research studies, helping us to advance our research. As of March 31, 2023, over 80% of our Customers were Consenting Customers.
- **Subscribers.** This metric represents the number of subscribers who have signed up for our 23andMe+ subscription service, which was launched in October 2020. We believe that 23andMe+, and any other future subscription offerings, will position us for future growth, as the membership model, which is annual for 23andMe+, represents a previously untapped source of recurring revenue. We are continually investing in new reports and features to provide to subscribers as part of the 23andMe+ membership, which we believe will enhance customer lifetime value as customers can make new discoveries about themselves. We believe that this, in turn, will help to scale our customer acquisition costs and create expanding network effects. As of March 31, 2023 and 2022, our 23andMe+ membership base had approximately 640,000 and 425,000 subscribers, respectively.
- **Adjusted EBITDA.** Adjusted EBITDA is the measure of segment profitability reported to our CEO, the CODM. See “—Adjusted EBITDA” below for a reconciliation of Adjusted EBITDA to net loss.

Components of Results of Operations

Revenue

We recognize revenue in accordance with Accounting Standards Codification (“ASC”) Topic 606, *Revenue from Contracts with Customers* (“ASC 606”), when we transfer promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services.

Our consolidated revenue is composed primarily of sales of PGS kits to customers and telehealth services, which include online medical visits, pharmacy services, and memberships, as well as revenues from target discovery activities as part of our research collaborations through our Consumer and Research Services segment. Additionally, revenue is generated through our collaboration agreements in our Therapeutics segment primarily as a result of the out-licensing of intellectual property to collaboration partners.

See Note 2, “*Summary of Significant Accounting Policies*,” to our consolidated financial statements included elsewhere in this Form 10-K for a more detailed discussion of our revenue recognition policies.

Cost of Revenue, Gross Profit, and Gross Margin

Cost of revenue for PGS primarily consists of cost of raw materials, lab processing fees, personnel-related expenses, including salaries, benefits, and stock-based compensation, shipping and handling, and allocated overhead. Cost of revenue for telehealth primarily consists of personnel-related expenses as described above that we incur for medical services, prescription drug costs, packaging and shipping, and amortization of intangible assets. Cost of revenue for research services primarily consists of personnel-related expenses as described above, and allocated overhead. We expect cost of revenue to fluctuate from period to period in the foreseeable future in absolute dollars but gradually decrease as a percentage of revenue over the long term.

Our gross profit represents total revenue less our total cost of revenue, and our gross margin is our gross profit expressed as a percentage of our total revenue. Our gross profit and gross margin have been and will continue to be affected by a number of factors, including the volume of PGS kit sales recognized, the prices we charge for our PGS products and research services, the prices we charge for telehealth services (medical visits, pharmacy services, and memberships), the fees we incur for lab processing PGS kits, the costs we incur for medical services and prescription drug costs, the revenues from our collaboration agreements, and the personnel costs to fulfill them. We expect our Consumer and Research Services gross margin to increase over the long term as subscription revenues become a higher percentage of revenue mix, although our gross margin may fluctuate from period to period. Substantially all our research services revenue is currently derived from the GSK Agreement. If we are unable to add new research services agreements, our research services revenue may decline substantially following the discovery term expiration of the GSK Agreement in July 2023.

Operating Expenses

Our operating expenses primarily consist of research and development, sales and marketing, and general and administrative expenses. Personnel-related expenses, which include salaries, benefits, and stock-based compensation, is the most significant component of research and development and general and administrative expenses. Advertising and brand-related spend and personnel-related expenses represent the primary components of sales and marketing expenses. Operating expenses also include allocated overhead costs. Overhead costs that are not substantially dedicated for use by a specific functional group are allocated based on headcount. Allocated overhead costs include shared costs associated with facilities (including rent and utilities) and related personnel, information technology and related personnel, and depreciation of property and equipment. We regularly evaluate our capital allocation approach to make sure our capital is being used for the highest value-creating activities and in the most efficient manner. This may require changes to investment levels, how we operate, or are structured to ensure alignment to business priorities.

Research and Development Expenses

Our research and development expenses support our efforts to add new services and add new features to our existing services, and to ensure the reliability and scalability of our services across our Consumer and Research Services segment. Research and development expenses also include our efforts to discover and genetically validate new therapeutic product candidates and continue to develop our portfolio of existing therapeutic product candidates, either our own proprietary programs or those in collaboration with partners across our Therapeutics segment. Research and development expenses primarily consist of personnel-related expenses, including salaries, benefits, and stock-based compensation associated with our research and development personnel, collaboration expenses, preclinical and clinical trial costs, laboratory services and supplies costs, third-party data services, and allocated overhead.

We plan to continue to invest in personnel to support our research and development efforts. We intend to make significant investments in therapeutics research and development efforts as we ramp up clinical trials for either our own proprietary or collaboration programs, such as the GSK collaboration. We expect that research and development expenses will increase on an absolute dollar basis in the foreseeable future as we continue to invest in our products, pipeline, and infrastructure for long-term growth. In addition, our research and development expenses may fluctuate as a percentage of revenue from period to period due to the timing and amount of these expenses.

Sales and Marketing Expenses

Sales and marketing expenses consist primarily of advertising costs, personnel-related expenses, including salaries, benefits, and stock-based compensation associated with our sales and marketing personnel, amortization and impairment of intangible assets, and outside services.

Advertising and brand costs consist primarily of direct expenses related to television, online and radio advertising, including production and branding, paid search, online display advertising, direct mail, affiliate programs, marketing collateral, market research and public relations. Advertising production costs are expensed the first time the advertising takes place, and all other advertising costs are expensed as incurred. Deferred advertising costs primarily consist of vendor payments made in advance to secure media spots across varying media channels, as well as production costs incurred before the first time the advertising takes place. Deferred advertising costs are expensed on the first date the advertisements occur. In addition, advertising costs include platform fees due to brokers related to our third-party retailers.

We expect our sales and marketing expenses to gradually decrease as a percentage of revenue over the long term, although our sales and marketing expenses may fluctuate as a percentage of revenue from period to period due to promotional strategies that drive the timing and amount of these expenses.

General and Administrative Expenses

General and administrative expenses primarily consist of personnel-related expenses, including salaries, benefits, and stock-based compensation associated with corporate management, including our CEO office, finance, legal, compliance, regulatory, corporate communications and other administrative personnel. In addition, general and administrative expenses include professional fees for external legal, accounting, and other consulting services, as well as credit card processing fees related to PGS kit sales and telehealth services.

We expect general and administrative expenses to increase in the near term as a result of operating as a public company, including expenses associated with compliance with SEC rules and regulations, and related increases in legal, audit, insurance, investor relations, professional services, and other administrative expenses. However, we anticipate general and administrative expenses to stabilize over the long term and gradually decrease as a percentage of revenue, although it may fluctuate as a percentage of total revenue from period to period due to the timing and amount of these expenses.

Other Income (Expense)

Other income (expense) includes interest income, net, and other income (expense), net. Interest income, net primarily consists of interest income earned on our cash deposits and cash equivalents. Other income (expense), net primarily consists of change in fair value of warrants liabilities for fiscal 2022, effects of changes in foreign currency exchange rates, and other non-operating income and expenditures.

Benefit from Income Taxes

Income tax benefit primarily consisted of a partial release in valuation allowance related to the Lemonaid Acquisition for fiscal 2022, and adjustments to deferred tax liabilities resulting from the impairment of a Lemonaid U.K. intangible asset for fiscal 2023. Deferred tax assets are reduced by a valuation allowance to the extent management believes it is not more likely than not to be realized. The ultimate realization of deferred tax assets is dependent upon the generation of future taxable income. Management makes estimates and judgments about future taxable income based on assumptions that are consistent with our plans and estimates.

Results of Operations

Comparisons for the Fiscal 2023 and Fiscal 2022

The following table sets forth our consolidated statements of operations for fiscal 2023 and fiscal 2022, and the dollar and percentage change between the two fiscal years:

	Year Ended March 31,		\$ Change	% Change
	2023	2022		
	(in thousands, except percentages)			
Revenue	\$ 299,489	\$ 271,893	\$ 27,596	10 %
Cost of revenue ⁽¹⁾	164,993	138,948	26,045	19 %
Gross profit	134,496	132,945	1,551	1 %
Operating expenses:				
Research and development ⁽¹⁾	222,596	189,377	33,219	18 %
Sales and marketing ⁽¹⁾	119,927	100,338	19,589	20 %
General and administrative ⁽¹⁾	115,984	97,383	18,601	19 %
Total operating expenses	458,507	387,098	71,409	18 %
Loss from operations	(324,011)	(254,153)	(69,858)	27 %
Other income (expense):				
Interest income, net	9,676	277	9,399	3393 %
Change in fair value of warrant liabilities	—	32,989	(32,989)	(100 %)
Other expense, net	(93)	(83)	(10)	12 %
Loss before income taxes	(314,428)	(220,970)	(93,458)	42 %
Benefit from income taxes	(2,772)	(3,480)	708	(20 %)
Net loss	\$ (311,656)	\$ (217,490)	\$ (94,166)	43 %

(1) Includes stock-based compensation expense as follows:

	Year Ended March 31,	
	2023	2022
	(in thousands)	
Cost of revenue	\$ 10,874	\$ 4,029
Research and development	48,837	26,540
Sales and marketing	8,635	5,122
General and administrative	47,671	22,242
Total stock-based compensation expense	\$ 116,017	\$ 57,933

The following table sets forth our consolidated statements of operations data expressed as a percentage of revenue for fiscal 2023 and fiscal 2022:

	Year Ended March 31,	
	2023	2022
Revenue	100 %	100 %
Cost of revenue	55 %	51 %
Gross profit	45 %	49 %
Operating expenses:		
Research and development	74 %	69 %
Sales and marketing	40 %	37 %
General and administrative	39 %	36 %
Total operating expenses	153 %	142 %
Loss from operations	(108 %)	(93 %)
Other income (expense):		
Interest income, net	3 %	0 %
Change in fair value of warrant liabilities	0 %	12 %
Other expense, net	0 %	0 %
Loss before income taxes	(105 %)	(81 %)
Benefit from income taxes	(1 %)	(1 %)
Net loss	(104 %)	(80 %)

Revenue

Total revenue increased by \$27.6 million, or 10%, for fiscal 2023 compared to fiscal 2022. The increase was due primarily to an increase in consumer services revenue of \$25.2 million, primarily attributable to an increase of \$25.5 million from a full fiscal year of telehealth services revenue from the Lemonaid Acquisition. Fiscal 2022 included only five months of telehealth services revenue, as the Lemonaid Acquisition occurred in November 2021. The increase in consumer services revenue was also due to a \$7.3 million increase in PGS subscription services revenue. The foregoing increases in consumer services revenue were partially offset by a \$7.6 million decrease in other PGS revenue driven mainly by lower PGS kit sales volume as we reduced certain marketing campaigns and promotional windows in fiscal 2023, which resulted in higher average selling prices on kit sales. Research services revenue increased by \$2.3 million due to a \$1.4 million increase in GSK collaboration revenue related to the GSK Agreement and a \$0.9 million increase in revenue under research contracts with other third parties, which fluctuated from period to period. The increase in GSK collaboration revenue was primarily attributable to an increase of \$10.4 million related to GSK's election to extend its exclusive discovery term for a fifth year until July 2023, which provides greater revenue per joint discovery hour than that of prior years. The foregoing increase was partially offset by a cumulative revenue adjustment of \$9.0 million taken in fiscal 2022, due to a change in the estimate of total project resources resulting in a higher to-date percentage of completion.

Cost of Revenue, Gross Profit and Gross Margin

Total cost of revenue increased by \$26.0 million, or 19%, for fiscal 2023 compared to fiscal 2022. Cost of revenue for consumer services increased by \$30.7 million, driven mainly by a \$34.5 million increase in telehealth services cost of revenue, primarily from \$15.3 million in personnel-related expenses, \$12.4 million in allocated overhead costs, \$3.7 million in shipping, supplies and consulting spend, and \$1.9 million in amortization expense for developed technology. The foregoing increases in costs related to consumer services revenue were partially offset by a decrease of \$2.8 million related to PGS kit sales, mainly due to lower lab processing, shipping and supplies costs. Cost of revenue for research services decreased by \$4.7 million primarily due to lower project hours pursuant to the GSK Agreement.

Our gross profit increased by \$1.6 million, or 1%, to \$134.5 million for fiscal 2023, from \$132.9 million for fiscal 2022. The increase in gross profit was primarily due to the increases in consumer services revenue and research services revenue as discussed above.

Our gross margin declined year over year, from 49% for fiscal 2022, to 45% for fiscal 2023, due to the integration of the telehealth services business and its share of overhead allocations, which generated a lower gross margin than our PGS kit sales, subscription services and research services.

Research and Development Expenses

The following table sets forth our research and development expenses for fiscal 2023 and fiscal 2022, and the dollar and percentage change between the two periods:

	Year Ended March 31,			
	2023	2022	\$ Change	% Change
		(in thousands, except percentages)		
Personnel-related expenses	\$ 126,583	\$ 90,563	\$ 36,020	40 %
Lab-related research services	41,017	40,900	117	0 %
Depreciation, equipment and supplies	6,717	8,214	(1,497)	(18 %)
Facilities, other overhead allocation, and other	48,279	49,700	(1,421)	(3 %)
Total research and development expenses	\$ 222,596	\$ 189,377	\$ 33,219	18 %

Research and development expenses for fiscal 2023 was \$222.6 million, as compared to \$189.4 million for fiscal 2022. This increase of \$33.2 million, or 18%, was primarily attributable to the increase in personnel-related expenses of \$36.0 million as a result of inflation, growth in headcount, and stock-based compensation in connection with new equity awards granted under the Company's 2021 Incentive Equity Plan (the "2021 Plan"), as well as accrued compensation under the Company's Annual Incentive Plan (the "2022 AIP"). Increases in lab-related research services expense from advancing our proprietary and collaborated programs with GSK was mostly offset by decreased spending on the GSK6097608 program following our election to adopt the royalty option instead of continuing to share in development costs. The increases described above were partially offset by a \$1.4 million decrease in facilities, other overhead allocation, and other from a decrease in allocated personnel-related expenses for shared-cost departments and a \$1.5 million decrease in depreciation, equipment and supplies primarily due to increased capitalization of internal-use software from a greater amount of projects in development within fiscal 2023.

For fiscal 2023 and fiscal 2022, 50% and 53% of total research and development expenses were attributable to the Consumer and Research Services business, respectively, and 50% and 47% were attributable to our Therapeutics business, respectively. The increase attributable to the Therapeutics business is driven by our continued investment in drug discovery and advancement of ongoing programs.

Sales and Marketing Expenses

The following table sets forth our sales and marketing expenses for fiscal 2023 and fiscal 2022, and the dollar and percentage change between the fiscal years:

	Year Ended March 31,			
	2023	2022	\$ Change	% Change
	(in thousands, except percentages)			
Advertising & brand	\$ 61,281	\$ 65,476	\$ (4,195)	(6%)
Personnel-related expenses	21,494	15,653	5,841	37%
Outside services, equipment and supplies	6,564	5,760	804	14%
Depreciation, amortization and impairment	22,450	5,586	16,864	100%
Facilities and other overhead allocation	8,138	7,863	275	3%
Total sales and marketing expenses	<u>\$ 119,927</u>	<u>\$ 100,338</u>	<u>\$ 19,589</u>	<u>20%</u>

Sales and marketing expenses for fiscal 2023 amounted to \$119.9 million, as compared to \$100.3 million for fiscal 2022, representing an increase of \$19.6 million, or 20%. This increase was primarily driven by a \$16.9 million increase in depreciation, amortization and impairment expenses due to a full fiscal year impact of amortization of acquired intangible assets, including customer relationships, trademarks, and partnerships, whereas the comparative fiscal 2022 period included only five months of amortization expenses, and a \$10.0 million impairment charge of an intangible asset acquired in the Lemonaid Acquisition. Personnel-related expenses increased by \$5.8 million as a result of inflation, growth in headcount, and stock-based compensation in connection with new equity awards granted under the 2021 Plan, as well as accrued compensation under the 2022 AIP. Additionally, advertising and brand-related expenses decreased by \$4.2 million due to fewer marketing campaigns and promotional windows in fiscal 2023.

General and Administrative Expenses

Total general and administrative expenses increased by \$18.6 million, or 19%, from \$97.4 million for fiscal 2022 to \$116.0 million for fiscal 2023. The increase in general and administrative expenses was primarily due to the increase in personnel-related expenses of \$29.3 million, which was a result of inflation, growth in headcount, and stock-based compensation expense in connection with new equity awards granted under the 2021 Plan, as well as accrued compensation under the 2022 AIP. Other operating expenses increased by \$1.6 million, primarily due to an increase in directors and officers insurance as a result of operating as a public company for the entire fiscal year. Facilities and overhead allocation increased by \$3.1 million, primarily due to increased allocated personnel-related expenses for shared-cost departments during fiscal 2023. These increases were partially offset by a \$15.5 million decrease in outside services, primarily due to non-recurring litigation settlement, as well as consulting and legal services related to the Lemonaid Acquisition, and associated integration fees in fiscal 2022.

Interest Income, net

Interest income, net increased by \$9.4 million from \$0.3 million for fiscal 2022 to \$9.7 million for fiscal 2023 primarily due to interest yields earned on cash equivalents held in money market funds.

Change in Fair Value of Warrant Liabilities

Benefit from change in fair value of warrant liabilities was \$33.0 million for fiscal 2022, due to a reduction in the fair value of the warrants that were assumed in connection with the Merger, which was primarily driven by movements in our stock price and volatility

measurements. As of March 31, 2022, all warrants were exercised or redeemed. Accordingly, there was no associated change in fair value of warrant liabilities in fiscal 2023.

Adjusted EBITDA

We evaluate the performance of each segment based on Adjusted EBITDA, which is a non-GAAP financial measure that we define as net income (loss) before net interest income (expense), net other income (expense), income tax expenses (benefit), depreciation and amortization, impairment charges, stock-based compensation expense, acquisition-related costs, and other items that are considered unusual or not representative of underlying trends of our business, including but not limited to: changes in fair value of warrant liabilities, litigation settlement, and restructuring and other charges, if applicable for the periods presented. Adjusted EBITDA is a key measure used by our management and our Board of Directors to understand and evaluate our operating performance and trends, to prepare and approve our annual budget, and to develop short- and long-term operating plans. In particular, we believe that the exclusion of the items eliminated in calculating Adjusted EBITDA provides useful measures for period-to-period comparisons of our business. Accordingly, we believe that Adjusted EBITDA provides useful information in understanding and evaluating our operating results in the same manner as our management and our Board of Directors. Adjusted EBITDA should not be considered in isolation of, or as an alternative to, measures prepared in accordance with GAAP. Other companies, including companies in our industry, may calculate similarly-titled non-GAAP financial measures differently or may use other measures to evaluate their performance, all of which could reduce the usefulness of Adjusted EBITDA as a tool for comparison. There are a number of limitations related to the use of these non-GAAP financial measures rather than net loss, which is the most directly comparable financial measure calculated in accordance with GAAP.

Some of the limitations of Adjusted EBITDA include (i) Adjusted EBITDA does not properly reflect capital commitments to be paid in the future, and (ii) although depreciation and amortization are non-cash charges, the underlying assets may need to be replaced and Adjusted EBITDA does not reflect these capital expenditures. In evaluating Adjusted EBITDA, you should be aware that in the future we will incur expenses similar to the adjustments in this presentation. Our presentation of Adjusted EBITDA should not be construed as an inference that our future results will be unaffected by these expenses or any unusual or non-recurring items. When evaluating our performance, you should consider Adjusted EBITDA alongside other financial performance measures, including our net loss and other GAAP results.

The following tables reconcile net loss to Adjusted EBITDA for fiscal 2023 and fiscal 2022 on a Company-wide basis and for each of our segments:

	Year Ended March 31,	
	2023	2022
	(in thousands)	
Segment Revenue: ⁽¹⁾		
Consumer and Research Services	\$ 299,489	\$ 271,893
Segment Adjusted EBITDA:		
Consumer and Research Services Adjusted EBITDA	\$ (17,997)	\$ (30,112)
Therapeutics Adjusted EBITDA	(88,503)	(76,944)
Unallocated Corporate ⁽²⁾	(54,801)	(43,684)
Total Adjusted EBITDA	<u>\$ (161,301)</u>	<u>\$ (150,740)</u>
Reconciliation of net loss to Adjusted EBITDA:		
Net loss	\$ (311,656)	\$ (217,490)
Adjustments:		
Interest income, net	(9,676)	(277)
Other expense, net	93	83
Change in fair value of warrant liabilities	—	(32,989)
Income tax benefit	(2,772)	(3,480)
Depreciation and amortization	20,239	18,899
Amortization of acquired intangible assets	16,486	7,269
Impairment of acquired intangible asset	9,968	—
Stock-based compensation expense	116,017	57,933
Acquisition-related costs ⁽³⁾	—	9,362
Litigation settlement ⁽⁴⁾	—	9,950
Total Adjusted EBITDA	<u>\$ (161,301)</u>	<u>\$ (150,740)</u>

(1) There was no Therapeutics revenue for fiscal 2023 and fiscal 2022.

- (2) Certain department expenses such as Finance, Legal, Regulatory and Supplier Quality, Corporate Communications, and CEO Office are not reported as part of the reporting segments as reviewed by the CODM. These amounts are included in Unallocated Corporate.
- (3) For fiscal 2022, acquisition-related costs primarily consisted of advisory, legal and consulting fees related to the Lemonaid Acquisition.
- (4) For fiscal 2022, litigation settlement is litigation cost net of insurance recoveries, which is not expected to occur on a recurring basis and not part of the Company's normal and continued business activity.

Consumer and Research Services

Consumer and Research Services Adjusted EBITDA improved for fiscal 2023, as compared to fiscal 2022, primarily due to an increase in consumer services revenue of \$25.2 million, primarily attributable to an increase of \$25.5 million from a full fiscal year of telehealth services revenue from the Lemonaid Acquisition. Fiscal 2022 included only five months of telehealth services revenue, as the Lemonaid Acquisition occurred in November 2021. The increase in consumer services revenue was also due to a \$7.3 million increase in other PGS subscription services revenue. The foregoing increases in consumer services revenue were partially offset by a \$7.6 million decrease in PGS revenue driven mainly by lower PGS kit sales volume, as we reduced certain marketing campaigns and promotional windows in fiscal 2023, which resulted in higher average selling prices and margin on kit sales. Research services revenue increased by \$2.3 million due primarily to a \$1.4 million increase in GSK collaboration revenue related to the GSK Agreement and a \$0.9 million increase in revenue under research contracts with other third parties. Additionally, capitalization of internal use software increased by \$5.2 million primarily due to a greater amount of projects in development within fiscal 2023, most of which were related to the integration of the telehealth business, as well as a \$4.2 million decrease in advertising and brand-related spend as we reduced investment in certain marketing campaigns and promotional windows between the comparative periods.

The foregoing improvements to Consumer and Research Services Adjusted EBITDA were partially offset by a \$23.9 million increase in personnel-related expenses driven by increased salaries and related taxes as a result of inflation and growth in headcount, primarily attributable to the inclusion of telehealth services, and a \$0.8 million increase in cost of revenue-related shipping, supplies and consultant spend.

Therapeutics

Therapeutics' Adjusted EBITDA declined for fiscal 2023, as compared to fiscal 2022, primarily due to a \$6.8 million increase in personnel-related expenses driven by increased salaries and related taxes as a result of inflation and growth in headcount, and \$0.7 million in consultant spend and lab-related supplies, all of which were to support advancement of ongoing programs. Additionally, Therapeutics' expenses that are attributed and allocated to cost of revenue for research services, decreased by \$3.3 million due to lower GSK research service hours between the comparative periods.

Liquidity and Capital Resources

We have financed our operations primarily through sales of equity securities and revenue from sales of PGS, telehealth, and research services. During fiscal 2022, we received gross proceeds of \$309.7 million from the Merger and \$250.0 million from the PIPE investment in connection with the Merger. Our primary requirements for liquidity and capital are to fund operating needs and finance working capital, capital expenditures, and general corporate purposes.

As of March 31, 2023, our principal source of liquidity was our cash and cash equivalents balance of \$386.8 million, which is held for working capital purposes. We have incurred significant operating losses as reflected in our accumulated deficit and negative cash flows from operations. We had an accumulated deficit of \$1,506.4 million as of March 31, 2023. As of the date of this Form 10-K, we believe that our existing cash resources are sufficient to continue operating activities for the next 12 months.

On February 6, 2023, we filed a shelf Registration Statement on Form S-3 (the "Shelf Registration Statement") with the SEC, relating to the sale, from time to time, in one or more transactions, of up to \$500 million of common stock, preferred stock, debt securities, warrants, and units. Also, on February 6, 2023, we entered into a Sales Agreement (the "Sales Agreement") with Cowen and Company, LLC (the "Agent"), pursuant to which we may sell, from time to time, at our option, up to \$150 million in aggregate principal amount of an indeterminate amount of shares of our Class A common stock, \$0.0001 par value per share (the "ATM Shares"), through the Agent, as the Company's sales agent. Subject to the terms of the Sales Agreement, the Agent will use reasonable efforts to sell the ATM Shares from time to time, based upon the Company's instructions (including any price, time, or size limits or other customary parameters or conditions we may impose), by methods deemed to be an "at the market offering" as defined in Rule 415(a)(4) promulgated under the Securities Act and pursuant to, and only upon the effectiveness of, the Shelf Registration Statement. We will pay the Agent a commission of 3.0% of the gross proceeds from the sales of the ATM Shares, if any. We have also agreed to provide the Agent with customary indemnification and contribution rights. The offering of the ATM Shares will terminate upon the earliest of (a) the sale of the maximum number or amount of the ATM Shares permitted to be sold under the Sales Agreement and (b) the termination of the Sales Agreement by the parties thereto. While we cannot provide any assurances that we will sell any ATM Shares pursuant to

the Sales Agreement, we expect to use the net proceeds from the sale of securities under the Sales Agreement, if any, for general corporate purposes, including working capital requirements and operating expenses; we, however, have not allocated the net proceeds for specific purposes. As of the date of this Form 10-K, we had not made any sales under the Sales Agreement.

We expect to continue to incur operating losses and negative cash flows from operations for the foreseeable future due to the investments we intend to continue to make in research and development, additional general and administrative expenses that we expect to incur in connection with operating as a public company, and additional sales and marketing expenses that we expect to incur as a result of the Lemonaid Acquisition. Cash from operations could also be affected from our customers and other risks set forth in Part I, Item 1A., “Risk Factors,” of this Form 10-K. We expect to continue to maintain financing flexibility in the current market conditions. As a result, we may require additional capital resources to execute strategic initiatives to grow our business.

Our future capital requirements will depend on many factors including our revenue growth rate, the timing and extent of spending to support further sales and marketing activities, and research and development efforts. We may continue to enter into arrangements to acquire or invest in complementary businesses, products, and technologies. We may, as a result of those arrangements or the general expansion of our business, be required to seek additional equity or debt financing. In the event that additional financing is required from outside sources, we may not be able to raise it on terms acceptable to us or at all. If we raise additional funds by issuing equity or equity-linked securities, our stockholders may experience dilution. Future debt financing, if available, may involve covenants restricting our operations or our ability to incur additional debt. If we are unable to raise additional capital when desired, our business, results of operations, and financial condition would be materially and adversely affected.

Cash Flows

The following table summarizes our cash flows for the periods presented:

	Year Ended March 31,	
	2023	2022
	(in thousands)	
Net cash used in operating activities	\$ (165,390)	\$ (166,828)
Net cash used in investing activities	\$ (11,305)	\$ (108,137)
Net cash provided by financing activities	\$ 9,777	\$ 546,004

Cash Flows from Operating Activities

Net cash used in operating activities of \$165.4 million for fiscal 2023 was primarily related to a net loss of \$311.7 million, partially offset by non-cash charges for stock-based compensation of \$116.0 million, depreciation and amortization of \$32.1 million, impairment of long-lived assets of \$10.1 million, and amortization and impairment of internal-use software of \$4.4 million. The net changes in operating assets and liabilities of \$16.5 million were primarily related to a decrease in accounts payable of \$24.6 million primarily due to timing of vendor payments, a decrease in operating lease liabilities of \$8.9 million primarily due to lease payments, a decrease in other liabilities of \$3.2 million primarily due to the reversal of a deferred tax liability related to U.K. intangibles, and a decrease in deferred revenue of \$0.4 million as a result of decreases in PGS deferred revenue primarily due to more revenue recognized than kit sales during the period, largely offset by increased deferred revenue related to GSK collaboration. These were partially offset by a decrease in accounts receivable of \$1.5 million primarily due to timing of customer billing, a decrease in prepaid expenses and other current assets of \$6.7 million primarily due to the receipt of insurance claim payments, a decrease in deferred cost of revenue of \$2.3 million primarily due to a decrease in PGS kit sales, a decrease in operating right-of-use assets of \$7.4 million primarily due to right-of-use assets amortization, and an increase in accrued and other current liabilities of \$2.7 million due to timing of vendor invoice receipts.

Net cash used in operating activities of \$166.8 million for fiscal 2022 was primarily related to a net loss of \$217.5 million and changes in fair value of warrant liabilities of \$33.0 million, partially offset by non-cash charges for stock-based compensation of \$57.9 million, depreciation and amortization of \$23.7 million and amortization of internal-use software of \$2.4 million. The net changes in operating assets and liabilities of \$0.5 million were primarily related to an increase in prepaid expenses and other current assets of \$10.1 million primarily due to increases in prepaid insurance and other receivables, a decrease in deferred revenue of \$8.8 million primarily due to more kit sales from holiday sales than revenue recognized during the period, a decrease in operating lease liabilities of \$7.1 million primarily due to lease payments, an increase in inventories of \$4.3 million due to increased purchases aligned with higher forecasted sales, an increase in deferred cost of revenue of \$2.2 million primarily due to an increase in PGS kit sales for the holiday season, an increase in other assets of \$1.8 million primarily due to an increase in long-term prepaid expenses, and an increase in accounts receivable of \$0.9 million primarily attributable to seasonal holiday sales through Amazon.com. These were offset by an increase in accounts payable of \$22.9 million primarily due to the timing of payments, an increase in accrued expenses and other current liabilities of \$8.3 million primarily due to timing of vendor invoice receipts, a decrease in operating lease right-of-use assets of \$7.1 million primarily due to right-of-use assets amortization, and a decrease in other liabilities of \$3.6 million mainly related to a deferred income tax benefit recognized for partial release of valuation allowance.

Cash Flows from Investing Activities

Net cash used in investing activities was \$11.3 million for fiscal 2023, which consisted of capitalization of internal-use software costs of \$7.3 million and purchases of property and equipment of \$4.0 million.

Net cash used in investing activities was \$108.1 million for fiscal 2022, which consisted of cash paid for acquisitions, net of cash acquired of \$94.2 million, purchases of intangible assets of \$5.5 million related to a patent rights purchase, capitalization of internal-use software costs of \$4.5 million and purchases of property and equipment of \$4.0 million.

Cash Flows from Financing Activities

Net cash provided by financing activities was \$9.8 million for fiscal 2023, which consisted of \$10.7 million in proceeds from the issuance of common stock under employee equity plans, partially offset by \$0.7 million in payments of deferred offering costs, and \$0.2 million in payments for taxes related to net share settlement of equity awards.

Net cash provided by financing activities was \$546.0 million for fiscal 2022, which consisted of \$309.7 million in proceeds from the Business Combination, \$250.0 million of proceeds from the PIPE Investment, and \$17.0 million in proceeds from the exercise of stock options, which were partially offset by \$30.6 million in payments of deferred offering costs, and \$0.1 million in payments for Warrant redemptions.

Contractual Obligations and Commitments

Our lease portfolio includes leased offices, dedicated lab facility and storage space, and dedicated data center facility space, with remaining contractual periods ranging from 2.8 years to 8.3 years. Refer to Note 11, “Leases,” to our consolidated financial statements included elsewhere in this Form 10-K for a summary of our future minimum lease obligations.

In the normal course of business, we enter into non-cancelable purchase commitments with various parties for purchases. Refer to Note 12, “Commitments and Contingencies,” to our consolidated financial statements included elsewhere in this Form 10-K for a summary of our commitments as of March 31, 2023.

Critical Accounting Policies and Estimates

Our consolidated financial statements and the related notes thereto included elsewhere in this Form 10-K are prepared in accordance with GAAP. The preparation of consolidated financial statements also requires us to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenue, costs and expenses, and related disclosures. We base our estimates on historical experience and on various other assumptions that we believe to be reasonable under the circumstances. Actual results could differ significantly from the estimates made by management. To the extent that there are differences between our estimates and actual results, our future financial statement presentation, financial condition, results of operations, and cash flows will be affected. We believe that the following are the critical accounting policies used in the preparation of our consolidated financial statements, as well as the significant estimates and judgments affecting the application of these policies. This discussion and analysis should be read in conjunction with our consolidated financial statements and related notes included in this Form 10-K.

Our significant accounting policies are described in Note 2 to our consolidated financial statements included elsewhere in this Form 10-K. These are the policies that we believe are the most critical to aid in fully understanding and evaluating our consolidated financial condition and results of operations.

Revenue Recognition

We generate revenue from our Consumer and Research Services segment, which includes revenue from PGS, telehealth, and research services, and our Therapeutics segment. In accordance with ASC 606, revenue is recognized when a customer obtains control of promised goods or services. The amount of revenue recognized reflects the consideration that we expect to receive in exchange for these goods or services.

We sell through multiple channels, including direct-to-consumer via our website and through online retailers. If the customer does not return the Kit, services cannot be completed by us, potentially resulting in unexercised rights (“breakage”) revenue. To estimate breakage, we apply the practical expedient available under ASC 606 to assess our customer contracts on a portfolio basis as opposed to individual customer contracts, due to the similarity of customer characteristics, at the sales channel level. We recognize the breakage amounts as revenue, proportionate to the pattern of revenue recognition of the returning kits in these respective sales channel portfolios.

We estimate breakage for the portion of Kits not expected to be returned using an analysis of historical data and consider other factors that could influence customer Kit return behavior. We update our breakage rate estimate periodically and, if necessary, adjust the deferred revenue balance accordingly. If actual return patterns vary from the estimate, actual breakage revenue may differ from the amounts recorded. We recognized breakage revenue from unreturned kits of \$27.7 million and \$21.9 million for the fiscal years ended March 31, 2023 and 2022, respectively.

We generate telehealth revenues from patient fees, pharmacy fees, and membership fees.

In providing telehealth services that include professional medical consultations, we maintain relationships with various affiliated PMCs, which are professional entities owned by licensed physicians and that engage licensed healthcare professionals (each, a “Provider” and collectively, the “Providers”) to provide consultation services. We account for service revenue as a principal in the arrangement with our patients.

Additionally, with respect to our telehealth services involving the sale of prescription products, we maintain relationships with affiliated pharmacies (collectively, the “Affiliated Pharmacies”) to fill prescriptions that are ordered by our patients. We account for prescription product revenue as a principal in the arrangement with our patients.

Business Combinations

We account for our business combinations using the acquisition method of accounting, which requires, among other things, allocation of the fair value of purchase consideration to the tangible and intangible assets acquired and liabilities assumed at their estimated fair values on the acquisition date. The excess of the fair value of purchase consideration over the values of these identifiable assets and liabilities is recorded as goodwill. The results of businesses acquired in a business combination are included in our consolidated financial statements from the date of acquisition. Acquisition costs, such as legal and consulting fees, are expensed as incurred.

Determining the fair value of assets acquired and liabilities assumed requires management to use significant judgment and estimates, including the selection of valuation methodologies, estimates of future revenue and cash flows, discount rates, and selection of comparable companies. The estimates and assumptions used to determine the fair values and useful lives of identified intangible assets could change due to numerous factors, including market conditions, technological developments, economic conditions, and competition. Our estimates of fair value are based upon assumptions believed to be reasonable, but which are inherently uncertain and unpredictable and, as a result, actual results may differ from estimates. During the measurement period, not to exceed one year from the date of acquisition, we may record adjustments to the assets acquired and liabilities assumed, with a corresponding offset to goodwill if new information is obtained related to facts and circumstances that existed as of the acquisition date. After the measurement period, any subsequent adjustments are reflected in the consolidated statements of operations and comprehensive loss.

When we issue stock-based or cash awards to an acquired company’s stockholders, we evaluate whether the awards are consideration or compensation for post-acquisition services. The evaluation includes, among other things, whether the vesting of the awards is contingent on the continued employment of the acquired company’s stockholders beyond the acquisition date. If continued employment is required for vesting, the awards are treated as compensation for post-acquisition services and recognized as expense over the requisite service period.

Goodwill

Goodwill represents the excess purchase price of acquired businesses over the fair values attributed to underlying net tangible assets and identifiable intangible assets. We test goodwill each fiscal year on January 1st for impairment at the Consumer and Research Services reporting unit level. Goodwill is also tested for impairment whenever an event occurs or circumstances change that would more likely than not reduce the fair value of a reporting unit below its carrying amount. Performance of the qualitative impairment assessment requires judgment in identifying and considering the significance of relevant events and circumstances, including external factors such as macroeconomic and industry conditions and the legal and regulatory environment, as well as entity-specific factors, such as actual and planned financial performance, that could impact the fair value of our Consumer and Research Services reporting unit. If, after assessing the totality of these qualitative factors, we determine that it is not more likely than not that the fair value of the reporting unit is less than its carrying amount, then no additional assessment is deemed necessary. Otherwise, we will proceed to perform the quantitative impairment test in which the fair value of the reporting unit is compared with its carrying amount, and an impairment charge will be recorded for the amount by which the carrying amount exceeds the reporting unit’s fair value, if any.

Our annual assessment for goodwill impairment was performed as of January 1, 2023 and 2022 for fiscal 2023 and fiscal 2022, respectively. The assessment indicated that it was more likely than not that the fair value of the Consumer and Research Services

reporting unit exceeded its carrying amount for both fiscal 2023 and fiscal 2022. Therefore, no goodwill impairment charges were recorded as a result of our fiscal 2023 and fiscal 2022 impairment analyses.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk

We have operations primarily within the United States and we are exposed to market risk in the ordinary course of our business. Market risk represents the risk of loss that may impact our financial position due to adverse changes in financial market prices and rates. We do not believe that inflation has had a material effect on our business, results of operations or financial condition. Nonetheless, if our costs were to become subject to significant inflationary pressures, we may not be able to fully offset such higher costs. Our inability or failure to do so could harm our business, results of operations or financial conditions.

Interest Rate Risk

As of March 31, 2023, we had \$386.8 million in cash and cash equivalents. Our cash equivalents are comprised primarily of money market accounts held at banks. Due to the short-term nature of these instruments, we believe that we do not have any material exposure to changes in the fair value of our investment portfolio as a result of changes in interest rates. Declines in interest rates, however, would reduce future interest income and cash flows. A hypothetical 10% change in interest rates during the fiscal years ended March 31, 2023, 2022 and 2021 would not have had a material impact on our historical consolidated financial statements.

Foreign Currency Risk

Our results of operations and cash flows are subject to fluctuations due to changes in foreign currency exchange rates. Currently, substantially all our revenue and expenses are denominated in U.S. dollars. Revenue and expenses are remeasured each day at the exchange rate in effect on the day the transaction occurred. Our results of operations and cash flows in the future may be adversely affected due to an expansion of non-U.S. dollar denominated contracts and changes in foreign exchange rates. The effect of a hypothetical 10% change in foreign currency exchange rates applicable to our business would not have had a material impact on our historical consolidated financial statements for the fiscal years ended March 31, 2023, 2022 and 2021. To date, we have not engaged in any hedging strategies. As our international activities grow, we will continue to reassess our approach to manage the risk relating to fluctuations in currency rates.

Item 8. Financial Statements and Supplementary Data

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Stockholders and Board of Directors

23andMe Holding Co.:

Opinions on the Consolidated Financial Statements and Internal Control Over Financial Reporting

We have audited the accompanying consolidated balance sheets of 23andMe Holding Co. and subsidiaries (the Company) as of March 31, 2023 and 2022, the related consolidated statements of operations and comprehensive loss, redeemable convertible preferred stock and stockholders' equity (deficit), and cash flows for each of the years in the three-year period ended March 31, 2023, and the related notes (collectively, the consolidated financial statements). We also have audited the Company's internal control over financial reporting as of March 31, 2023, based on criteria established in *Internal Control – Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Company as of March 31, 2023 and 2022, and the results of its operations and its cash flows for each of the years in the three-year period ended March 31, 2023, in conformity with U.S. generally accepted accounting principles. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of March 31, 2023 based on criteria established in *Internal Control – Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission.

Basis for Opinions

The Company's management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Report on Internal Controls over Financial Reporting. Our responsibility is to express an opinion on the Company's consolidated financial statements and an opinion on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

Definition and Limitations of Internal Control Over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Critical Audit Matter

The critical audit matter communicated below is a matter arising from the current period audit of the consolidated financial statements that was communicated or required to be communicated to the audit committee and that: (1) relates to accounts or disclosures that are material to the consolidated financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of a critical audit matter does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

Sufficiency of audit evidence over revenue recognition

As discussed in Notes 2 and 5 to the consolidated financial statements, the Company generated \$182.9 million of point-in-time revenue related to its Personal Genome Service (PGS) for the year-ended March 31, 2023. The processing and recording of PGS revenue are reliant upon multiple information technology (IT) systems.

We identified the evaluation of the sufficiency of audit evidence over the PGS revenue recognition as a critical audit matter. The Company's PGS revenue recognition process is highly automated and is reliant upon multiple IT systems. Subjective auditor judgment was required to evaluate the sufficiency of audit evidence obtained because of the complexity of the IT environment related to the revenue recognition process and required the involvement of IT professionals with specialized skills and knowledge.

The following are the primary procedures we performed to address this critical audit matter. We applied auditor judgment to determine the nature and extent of procedures to be performed over the IT elements of PGS revenue recognition, including the determination of IT systems for which those procedures were performed based on the information processed by the systems. We evaluated the design and tested the operating effectiveness of certain internal controls within the Company's PGS revenue recognition process. We involved IT professionals with specialized skills and knowledge, who assisted in (i) gaining an understanding of IT systems and (ii) testing certain general IT controls, IT application controls, and key reports within the Company's PGS revenue recognition process. For a sample of PGS revenue, we traced the recorded amounts to third party source documents and system records. We evaluated the sufficiency of audit evidence obtained by assessing the results of procedures performed, including the appropriateness of the nature and extent of such evidence.

/s/ KPMG LLP

We have served as the Company's auditor since 2020.

Santa Clara, California
May 25, 2023

23ANDME HOLDING CO.
CONSOLIDATED BALANCE SHEETS
(in thousands, except share and per share data)

	March 31, 2023	March 31, 2022
ASSETS		
Current assets:		
Cash and cash equivalents	\$ 386,849	\$ 553,182
Restricted cash	1,399	1,599
Accounts receivable, net	1,897	3,380
Inventories	10,247	10,789
Deferred cost of revenue	5,376	7,700
Prepaid expenses and other current assets	19,224	25,139
Total current assets	424,992	601,789
Property and equipment, net	38,608	49,851
Operating lease right-of-use assets	56,078	55,577
Restricted cash, noncurrent	6,974	6,974
Internal-use software, net	15,661	9,635
Intangible assets, net	45,520	73,905
Goodwill	351,744	351,744
Other assets	3,021	2,593
Total assets	\$ 942,598	\$ 1,152,068
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Accounts payable (included related party amounts of \$3,186 and \$12,567, respectively)	\$ 12,924	\$ 37,930
Accrued expenses and other current liabilities (included related party amounts of \$8,738 and \$5,772, respectively)	66,430	44,588
Deferred revenue (included related party amounts of \$11,753 and \$9,181, respectively)	62,521	62,939
Operating lease liabilities	7,541	7,784
Total current liabilities	149,416	153,241
Operating lease liabilities, noncurrent	77,763	78,524
Other liabilities	1,480	4,647
Total liabilities	228,659	236,412
Commitments and contingencies (Note 12)		
Stockholders' equity		
Preferred stock - par value \$0.0001, 10,000,000 shares authorized as of March 31, 2023 and 2022; zero shares issued and outstanding as of March 31, 2023 and 2022	—	—
Common stock, par value \$0.0001 - Class A shares, 1,140,000,000 shares authorized, 293,020,474 and 228,174,718 shares issued and outstanding as of March 31, 2023 and 2022, respectively; Class B shares, 350,000,000 shares authorized, 168,179,488 and 220,637,603 shares issued and outstanding as of March 31, 2023 and 2022, respectively	46	45
Additional paid-in capital	2,220,897	2,110,160
Accumulated other comprehensive income (loss)	(620)	179
Accumulated deficit	(1,506,384)	(1,194,728)
Total stockholders' equity	713,939	915,656
Total liabilities and stockholders' equity	\$ 942,598	\$ 1,152,068

The accompanying notes are an integral part of these consolidated financial statements.

23ANDME HOLDING CO.
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS
(in thousands, except share and per share data)

	Year Ended March 31,		
	2023	2022	2021
Revenue (included related party revenue of \$47,448, \$46,064 and \$39,917, respectively)	\$ 299,489	\$ 271,893	\$ 243,920
Cost of revenue (included related party cost of \$530, \$299 and \$(1,400), respectively)	164,993	138,948	126,914
Gross profit	134,496	132,945	117,006
Operating expenses:			
Research and development (included related party expenses of \$10,709, \$23,954 and \$18,684, respectively)	222,596	189,377	159,856
Sales and marketing	119,927	100,338	43,197
General and administrative	115,984	97,383	99,149
Total operating expenses	458,507	387,098	302,202
Loss from operations	(324,011)	(254,153)	(185,196)
Other income (expense):			
Interest income, net	9,676	277	255
Change in fair value of warrant liabilities	—	32,989	—
Other income (expense), net	(93)	(83)	1,322
Loss before income taxes	(314,428)	(220,970)	(183,619)
Benefit from income taxes	(2,772)	(3,480)	—
Net loss	(311,656)	(217,490)	(183,619)
Other comprehensive income (loss), net of tax	(799)	179	—
Total comprehensive loss	\$ (312,455)	\$ (217,311)	\$ (183,619)
Net loss per share of Class A and Class B common stock attributable to common stockholders:			
Basic and diluted	\$ (0.69)	\$ (0.60)	\$ (1.84)
Weighted-average shares used to compute net loss per share:			
Basic and diluted	451,504,377	361,528,119	99,660,786

The accompanying notes are an integral part of these consolidated financial statements.

23ANDME HOLDING CO.
CONSOLIDATED STATEMENTS OF REDEEMABLE CONVERTIBLE PREFERRED STOCK
AND STOCKHOLDERS' EQUITY (DEFICIT)
(in thousands, except share and per share data)

	Redeemable Convertible Preferred Stock		Common Stock		Additional Paid-In Capital	Accumulated Other Comprehensive Income (Loss)	Accumulated Deficit	Total Stockholders' Equity (Deficit)
	Shares	Amount	Shares	Amount				
Balance as of March 31, 2020	198,274,933	\$ 755,083	101,652,799	\$ 9	\$ 172,727	\$ -	\$ (793,619)	\$ (620,883)
Issuance of Series F-1 redeemable convertible preferred stock at \$7.56 per share, net of issuance costs of \$232	10,906,922	82,268						
Issuance of common stock upon exercise of stock options	—	—	11,768,079	1	29,091			29,092
Issuance of common stock upon early exercise of stock options	—	—	11,108,906					
Vesting of early exercised stock options	—	—		2	91,044			91,046
Stock-based compensation expense	—	—			88,745			88,745
Net loss	—	—					(183,619)	(183,619)
Balance as of March 31, 2021	209,181,855	837,351	124,529,784	\$ 12	\$ 381,607	\$ -	\$ (977,238)	\$ (595,619)
Preferred stock conversion	(209,181,855)	(837,351)	209,181,855	21	837,330	—	—	837,351
Issuance of common stock upon Merger (net of transaction costs of \$33,726)	—	—	46,901,747	5	200,574	—	—	200,579
Issuance of PIPE shares (related party amount of \$25,000)	—	—	25,000,000	3	249,997	—	—	250,000
Issuance of common stock upon exercise of stock options	—	—	5,808,526	—	16,831	—	—	16,831
Issuance of common stock for acquisition of business	—	—	30,572,268	3	322,842	—	—	322,845
Issuance of common stock for Class A common stock warrant exercise	—	—	6,016,347	1	42,355	—	—	42,356
Stock-based compensation expense	—	—	—	—	58,624	—	—	58,624
Issuance of common stock upon release of RSUs	—	—	801,794	—	—	—	—	—
Other comprehensive income	—	—	—	—	—	179	—	179
Net loss	—	—	—	—	—	—	(217,490)	(217,490)
Balance as of March 31, 2022	—	\$ —	448,812,321	\$ 45	\$ 2,110,160	\$ 179	\$ (1,194,728)	\$ 915,656
Issuance of common stock upon exercise of stock options	—	—	2,748,796	—	4,203	—	—	4,203
Issuance of common stock upon release of RSUs	—	—	7,062,152	1	(1)	—	—	—
Net share settlements for stock-based minimum tax withholdings	—	—	(65,620)	—	(197)	—	—	(197)
Issuance of common stock under employee stock purchase plan	—	—	2,642,313	—	6,463	—	—	6,463
Stock-based compensation expense	—	—	—	—	100,269	—	—	100,269
Other comprehensive loss	—	—	—	—	—	(799)	—	(799)
Net loss	—	—	—	—	—	—	(311,656)	(311,656)
Balance as of March 31, 2023	—	\$ —	461,199,962	\$ 46	\$ 2,220,897	\$ (620)	\$ (1,506,384)	\$ 713,939

The accompanying notes are an integral part of these consolidated financial statements.

23ANDME HOLDING CO.
CONSOLIDATED STATEMENTS OF CASH FLOWS
(in thousands)

	Year Ended March 31,		
	2023	2022	2021
Cash flows from operating activities:			
Net loss	\$ (311,656)	\$ (217,490)	\$ (183,619)
Adjustments to reconcile net loss to net cash used in operating activities:			
Depreciation and amortization	32,071	23,699	18,078
Amortization and impairment of internal-use software	4,427	2,449	2,168
Stock-based compensation expense	116,017	57,933	88,425
Changes in fair value of warrant liabilities	—	(32,989)	—
Impairment of long-lived assets	10,126	—	—
Other	77	85	(819)
Changes in operating assets and liabilities:			
Accounts receivable, net	1,483	(899)	3,912
Inventories	542	(4,262)	7,884
Deferred cost of revenue	2,325	(2,219)	1,163
Prepaid expenses and other current assets	6,653	(10,077)	2,126
Operating lease right-of-use assets	7,393	7,078	10,288
Other assets	(429)	(1,820)	573
Accounts payable (included related party amounts of \$(9,381), \$8,145 and \$191, respectively)	(24,573)	22,856	137
Accrued expenses and other current liabilities (included related party amounts of \$2,966, \$(1,293) and \$3,517, respectively)	2,671	8,316	82
Deferred revenue (included related party amounts of \$2,572, \$(20,959) and \$(14,917), respectively)	(418)	(8,799)	(16,210)
Operating lease liabilities	(8,934)	(7,054)	(8,528)
Other liabilities	(3,165)	(3,635)	88
Net cash used in operating activities	<u>(165,390)</u>	<u>(166,828)</u>	<u>(74,252)</u>
Cash flows from investing activities:			
Purchases of property and equipment	(4,048)	(3,968)	(4,054)
Proceeds from sale of property and equipment	5	1	838
Purchases of intangible assets	—	(5,500)	—
Capitalized internal-use software costs	(7,262)	(4,505)	(3,320)
Cash paid for acquisitions, net of cash acquired	—	(94,165)	—
Net cash used in investing activities	<u>(11,305)</u>	<u>(108,137)</u>	<u>(6,536)</u>
Cash flows from financing activities:			
Proceeds from issuance of redeemable convertible preferred stock	—	—	82,500
Payments for issuance costs of redeemable convertible preferred stock	—	—	(232)
Proceeds from exercise of stock options (included related party amounts of zero, zero and \$67,359, respectively)	4,203	16,998	76,151
Proceeds from issuance of common stock under employee stock purchase plan	6,464	—	—
Payments for taxes related to net share settlement of equity awards	(197)	—	—
Payments of deferred offering costs	(693)	(30,642)	(3,084)
Proceeds from issuance of common stock upon merger	—	309,720	—
Proceeds from PIPE (included related party amounts of zero, \$25,000 and zero, respectively)	—	250,000	—
Proceeds from exercise of merger warrants	—	44	—
Payment for warrant redemptions	—	(116)	—
Net cash provided by financing activities	<u>9,777</u>	<u>546,004</u>	<u>155,335</u>
Effect of exchange rates on cash and cash equivalents	<u>385</u>	<u>(146)</u>	<u>—</u>
Net increase (decrease) in cash, cash equivalents and restricted cash	<u>(166,533)</u>	<u>270,893</u>	<u>74,547</u>
Cash, cash equivalents and restricted cash—beginning of period	<u>561,755</u>	<u>290,862</u>	<u>216,315</u>
Cash, cash equivalents and restricted cash—end of period	<u>\$ 395,222</u>	<u>\$ 561,755</u>	<u>\$ 290,862</u>
Supplemental disclosures of non-cash investing and financing activities:			
Purchases of property and equipment included in accounts payable and accrued expenses	\$ 473	\$ 722	\$ 535
Stock-based compensation capitalized for internal-use software costs	3,191	1,166	637
Vesting of related party early exercised stock options	—	—	91,046
Reclassification of deferred offering costs	—	3,971	—
Assumption of merger warrants liability	—	75,415	—
Deferred offering costs during the period included in accounts payable and accrued expenses	45	—	887
Conversion of redeemable convertible preferred stock to common stock	—	837,351	—
Redemption/exercise of Class A common stock warrants	—	42,354	—
Stock consideration in acquisition of businesses, including fair value of common stock issued and stock-based awards that were vested	—	322,842	—
Reconciliation of cash, cash equivalents, and restricted cash within the consolidated balance sheets to the amounts shown in the consolidated statements of cash flows above:			
Cash and cash equivalents	\$ 386,849	\$ 553,182	\$ 282,489
Restricted cash, current	1,399	1,599	1,399
Restricted cash, noncurrent	6,974	6,974	6,974
Total cash, cash equivalents and restricted cash	<u>\$ 395,222</u>	<u>\$ 561,755</u>	<u>\$ 290,862</u>

The accompanying notes are an integral part of these consolidated financial statements.

23ANDME HOLDING CO.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

1. Organization and Description of Business

23andMe Holding Co. (the “Company” or “23andMe”) is dedicated to helping people access, understand, and benefit from the human genome. The Company is building the leading direct-to-consumer precision medicine platform that powers our genetics driven therapeutics and research business. 23andMe, Inc., the Company’s accounting predecessor, was incorporated in Delaware in 2006. The Company is headquartered in South San Francisco, California.

On November 1, 2021, the Company completed its acquisition (the “Lemonaid Acquisition”) of Lemonaid Health, Inc. (“Lemonaid” or “Lemonaid Health”), pursuant to that certain Agreement and Plan of Merger and Reorganization (the “Lemonaid Health Merger Agreement”), dated as of October 21, 2021. See Note 4, “*Acquisition*,” for additional details. Through the Lemonaid Health platform, the Company offers patients affordable and direct online access to medical care, from consultation through treatment, for a number of common conditions, using evidence-based guidelines and up-to-date clinical protocols. When medications are prescribed by Lemonaid Health’s affiliated healthcare professionals, patients can use Lemonaid Health’s online pharmacy for fulfillment. Patients also can access telehealth consultations for certain 23andMe genetic reports through Lemonaid.

On June 16, 2021 (the “Closing Date”), the Company consummated the transactions (the “Merger”) contemplated by the Agreement and Plan of Merger, dated February 4, 2021, as amended on February 13, 2021 and March 25, 2021 (the “Merger Agreement”), by and among VG Acquisition Corp., a blank check company incorporated as a Cayman Islands exempted company in 2020 (“VGAC”), Chrome Merger Sub, Inc., a Delaware corporation and wholly owned direct subsidiary of VGAC (the “Merger Sub”), and 23andMe, Inc. In connection with the Merger, VGAC changed its jurisdiction of incorporation from the Cayman Islands to the State of Delaware and changed its name to 23andMe Holding Co. (the “Domestication”). On the Closing Date, Merger Sub merged with and into 23andMe, Inc., with 23andMe, Inc. being the surviving corporation and a wholly owned subsidiary of the Company (together with the Merger and the Domestication, the “Business Combination”).

The transaction was accounted for as a reverse recapitalization with 23andMe, Inc. being the accounting acquirer and VGAC as the acquired company for accounting purposes. Accordingly, all historical financial information presented in the consolidated financial statements represents the accounts of 23andMe, Inc. and its wholly owned subsidiary. The shares and net loss per common share prior to the Merger have been retroactively restated as shares reflecting the exchange ratio established in the Merger. See Note 3, “*Recapitalization*,” for additional details.

Prior to the Business Combination, VGAC’s units, public shares, and public warrants were listed on the New York Stock Exchange under the symbols “VGAC.U,” “VGAC,” and “VGAC WS,” respectively. On June 17, 2021, the Company’s Class A common stock and public warrants began trading on The Nasdaq Global Select Market (“Nasdaq”), under the symbols “ME” and “MEUSW,” respectively. The public warrants stopped trading on Nasdaq and were delisted after the redemption by the Company in December 2021. See Note 3, “*Recapitalization*,” and Note 13, “*Shareholders’ Equity*,” for additional details.

The Company has evaluated how it is organized and managed and has identified two reporting segments: Consumer and Research Services, and Therapeutics.

2. Summary of Significant Accounting Policies

Basis of Presentation and Principle of Consolidation

The Company’s consolidated financial statements have been prepared in conformity with accounting principles generally accepted in the United States of America (“GAAP”) and include the accounts of the Company and its wholly owned subsidiaries, and variable interest entities in which it holds a controlling financial interest. All intercompany accounts and transactions have been eliminated in consolidation.

For the fiscal years ended March 31, 2023, 2022 and 2021, the Company’s operations were primarily in the United States. For the fiscal years ended March 31, 2023 and 2022, the Company had immaterial operations in the United Kingdom (“U.K.”).

Fiscal Year

The Company’s fiscal year ends on March 31. References to fiscal year 2023, 2022 and 2021 refer to the fiscal years ended March 31, 2023, 2022 and 2021, respectively.

Use of Estimates

The preparation of consolidated financial statements in conformity with GAAP requires management to make estimates, judgments, and assumptions that affect the reported amounts of assets and liabilities and the related disclosure of contingent assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenue and expenses during the reporting period and the accompanying notes. Significant items subject to such estimates and assumptions include, but are not limited to the determination of standalone selling price for various performance obligations; the estimated expected benefit period for the rate and recognition pattern of breakage revenue for purchases where a saliva collection kit (“Kit”) is never returned for processing; the capitalization and estimated useful life of internal use software; the useful life of long-lived assets; fair value of intangible assets acquired in business combinations; the carrying value of goodwill; the incremental borrowing rate for operating leases; stock-based compensation including the determination of the fair value of stock options, annual incentive bonuses payable in the form of restricted stock units (“RSUs”), as well as the Company’s common stock prior to the Closing Date of the Merger; and the valuation of deferred tax assets and uncertain tax positions. The Company bases these estimates on historical and anticipated results, trends, and various other assumptions that it believes are reasonable under the circumstances, including assumptions as to future events. Actual results could differ from these estimates, and such differences could be material to the consolidated financial statements.

During the fiscal year ended March 31, 2022, the Company recorded an adjustment to revenue related to a change in estimate in connection with the collaboration agreement with GlaxoSmithKline plc (“GSK”). The change in estimate was driven by a change in the total project resources resulting in a reduction in the total estimated project hours, which impacted the measurement of progress of the arrangement using the input method. The adjustment increased revenue by \$9.0 million, decreased net loss by \$9.0 million and decreased the Company’s basic and diluted net loss per share by \$0.02 for the fiscal year ended March 31, 2022.

The Company is not aware of any specific event or circumstance that would require revisions to estimates, updates to judgments, or adjustments to the carrying value of assets or liabilities. These estimates may change, as new events occur and additional information is obtained, and will be recognized in the consolidated financial statements as soon as they become known. Actual results could differ from those estimates and any such differences may be material to the consolidated financial statements.

Reclassifications

Certain prior year amounts have been reclassified to conform to the current year presentation in the consolidated financial statements and accompanying notes to the consolidated financial statements.

Concentration of Supplier Risk

Certain of the raw materials, components and equipment associated with the deoxyribonucleic acid (“DNA”) microarrays and Kits used by the Company in the delivery of its services are available only from third-party suppliers. The Company also relies on a third-party laboratory service for the processing of its customer samples. Shortages and slowdowns could occur in these essential materials, components, equipment, and laboratory services due to an interruption of supply or increased demand in the industry. If the Company were unable to procure certain materials, components, equipment, or laboratory services at acceptable prices, it would be required to reduce its laboratory operations, which could have a material adverse effect on its results of operations.

A single supplier accounted for 100% of the Company’s total purchases of microarrays and a separate single supplier accounted for 100% of the Company’s total purchases of Kits for the fiscal years ended March 31, 2023, 2022 and 2021. One laboratory service provider accounted for 100% of the Company’s processing of customer samples for the fiscal years ended March 31, 2023, 2022 and 2021.

Concentration of Credit Risk

Financial instruments that potentially subject the Company to a concentration of credit risk include cash, cash equivalents and accounts receivable. The Company maintains a majority of its cash and cash equivalents with a single high-quality financial institution, the composition and maturities of which are regularly monitored by the Company. The Company’s revenue and accounts receivable are derived primarily from the United States. See Note 5, “Revenue,” for additional information regarding geographical disaggregation of revenue. The Company grants credit to its customers in the normal course of business, performs ongoing credit evaluations of its customers, and does not require collateral. The Company regularly monitors the aging of accounts receivable balances.

Significant customer information is as follows:

	March 31, 2023	March 31, 2022	
Percentage of accounts receivable:			
Customer C	69 %	25 %	25 %
Customer F	27 %	19 %	19 %
Customer G	0 %	44 %	44 %
	Year Ended March 31,		
	2023	2022	2021
Percentage of revenue:			
Customer C	22 %	20 %	21 %
Customer B	16 %	17 %	16 %

Cash, Cash Equivalents and Restricted Cash

Cash consists of bank deposits held at financial institutions. Cash in U.S. banks is insured to the extent defined by the Federal Deposit Insurance Corporation. Cash equivalents consist primarily of short-term money market funds. The Company maintains certain cash amounts restricted as to its withdrawal or use. The Company held total restricted cash of \$8.4 million and \$8.6 million as of March 31, 2023 and 2022, respectively, which are related to letters of credit in connection with operating lease agreements, as well as collateral held against the Company's corporate credit cards.

Fair Value Measurements

Fair value is defined as the exchange price that would be received from the sale of an asset or paid to transfer a liability in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. The Company measures financial assets and liabilities at fair value at each reporting period using a fair value hierarchy, which requires the Company to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. A financial instrument's classification within the fair value hierarchy is based upon the lowest level of input that is significant to the fair value measurement.

Three levels of inputs may be used to measure fair value:

Level 1 – Quoted prices in active markets for identical assets or liabilities.

Level 2 – Inputs other than Level 1 that are observable, either directly or indirectly, such as quoted prices for similar assets or liabilities; quoted prices in markets that are not active; or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities.

Level 3 – Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities.

Accounts Receivable, Net

Accounts receivable is recorded at the invoiced amount, net of estimated reserves for customer refunds, sales incentives, and bad debt, and is not interest-bearing. Accounts receivable represent amounts billed to the customers for bulk order and retail sales, and amounts billed under research services arrangements. Accounts receivable deemed uncollectable are charged against the estimated reserves when identified. The estimated reserves are based on the Company's assessment of the collectability of accounts. The Company regularly reviews the adequacy of the estimated reserves based on a combination of factors, including an assessment of past collection experience, credit quality of the customer, customer's aging balance, nature and size of the customer, the financial condition of the customer and the amount of any receivables in dispute. The reserves for customer refunds, sales incentives and bad debt were immaterial for all periods presented.

Inventories

Inventories consist primarily of raw material of Kits and DNA microarrays and are stated at the lower of cost or net realizable value. Kits are shipped to and stored at third-party warehouses and retail consignment sites. DNA microarrays are shipped and stored at third-party laboratories. All inventories are expected to be delivered to the Company's customers within a normal operating cycle for the Company, which is 12 months. Accordingly, all the Company's Kits and DNA microarrays are classified as current assets in the

consolidated balance sheets. Cost is determined using standard cost, which approximates the average cost of the inventory items, including shipping and taxes. The Company has determined that all of its inventories would be sold above cost, and that no reserve for lower of cost or net realizable value is required for the Company's inventories as of March 31, 2023 and 2022.

Deferred Cost of Revenue

Deferred cost of revenue consists primarily of the purchase costs and shipping and fulfillment costs of Kits that have been shipped to consumers and non-consigned retail sites. Deferred cost of revenue is recognized as cost of revenue when the performance obligation to which it relates is fulfilled, which is when the Kit is processed and initial results are made available to the customer, and the respective deferred revenue is recognized.

Property and Equipment, Net

Property and equipment are stated at cost net of accumulated depreciation and amortization. Depreciation is calculated using the straight-line method over the estimated useful lives of the assets. Expenditures for maintenance and repairs are expensed as incurred. When property and equipment are retired or otherwise disposed of, the cost and accumulated depreciation are removed from the consolidated balance sheets, and any resulting gain or loss is reflected in consolidated statements of operations and comprehensive loss in the period realized.

The estimated useful lives of the Company's property and equipment are as follows:

Computer and software	3 years
Laboratory equipment and software	5 years
Furniture and office equipment	5 years
Leasehold improvements	Shorter of remaining lease term or estimated useful life

Internal-Use Software

The Company capitalizes certain costs related to the development of its customer platform and other internal-use software, primarily consisting of employee-related costs. Costs incurred during the application development phase are capitalized only when the Company believes it is probable the development will result in new or additional functionality. Costs incurred during the preliminary planning and evaluation stage of the project and during the post-implementation operational stage are expensed as incurred. Internal-use software is amortized using the straight-line method over the estimated useful life, which is generally two to four years.

Goodwill and Intangible Assets

Goodwill amounts are not amortized, but rather tested for impairment annually or more often if circumstances indicate that the carrying value may not be recoverable. The Company tests goodwill for impairment on an annual basis in the fourth quarter of each year, on January 1. In the impairment test, the Company measures the recoverability of goodwill by comparing a reporting unit's carrying amount, including goodwill, to the estimated fair value of the reporting unit. If the carrying amount of a reporting unit is in excess of its fair value, the Company recognizes an impairment charge equal to the amount in excess. There were no impairment charges to goodwill during the fiscal years ended March 31, 2023, 2022 and 2021.

Acquired intangible assets consist of identifiable intangible assets resulting from business combinations. Acquired finite-lived intangible assets are initially recorded at fair value and are amortized on a straight-line basis over their estimated useful lives. Amortization expense is recognized within cost of revenue for developed technology, sales and marketing expense for customer relationships, partnerships, and trademark, and general and administrative expense for non-compete agreements, in the consolidated statements of operations and comprehensive loss.

Other intangible assets consist of purchased patents. Intangible assets are carried at cost less accumulated amortization and are amortized over the period of estimated benefit using the straight-line method and their estimated useful lives. Amortization for patents is recognized in research and development and general and administrative expenses in the consolidated statements of operations and comprehensive loss.

Impairment of Long-Lived Assets

The Company evaluates long-lived assets, such as property and equipment, internal-use software, acquired intangible assets, and right of use assets related to operating leases for impairment whenever events or changes in circumstances indicate that the carrying value of long-lived assets may not be recoverable. The recoverability of these assets is measured by comparing the carrying amounts to

the future undiscounted cash flows these assets are expected to generate. The Company recognizes an impairment in the event the carrying amount of such assets exceeds the fair value attributable to such assets.

Leases

The Company determines if an arrangement is or contains a lease at inception. The Company evaluates classification of leases as either operating or finance at commencement and, as necessary, at modification. Operating leases are included in operating lease right-of-use (“ROU”) assets, other accrued liabilities, and operating lease liabilities on the Company’s consolidated balance sheets. ROU assets represent the Company’s right to use an underlying asset for the lease term and lease liabilities represent its obligation to make lease payments under the lease. Operating lease ROU assets and liabilities are recognized on the commencement date based on the present value of lease payments over the lease term. As the Company’s leases generally do not provide an implicit rate, the Company uses its incremental borrowing rate based on the information available at commencement date in determining the present value of lease payments. The operating lease ROU asset also includes initial direct costs incurred and lease payments made prior to lease commencement less lease incentives received. Variable lease payments not dependent on an index or a rate are expensed as incurred and are not included within the ROU asset and lease liability calculation. Variable lease payments primarily include property taxes and costs incurred by lessors for common area maintenance. The Company’s lease terms are the non-cancelable period stated in the contract, including any rent-free periods provided by the lessor, adjusted for any options to extend or terminate when it is reasonably certain that the Company will exercise that option. The Company accounts for lease and non-lease components in its lease agreements as a single lease component in determining lease assets and liabilities. In addition, the Company does not recognize the right-of-use assets and liabilities for leases with lease terms of twelve months or less. As of March 31, 2023 and 2022, the Company did not have any finance leases.

Revenue Recognition

The Company generates revenue primarily from its Consumer & Research Services segment, which includes revenue from its Personal Genome Service® (“PGS”), telehealth, and research services. In accordance with Accounting Standards Codification (“ASC”) Topic 606, *Revenue from Contracts with Customers* (“ASC 606”), the Company recognizes revenue when its customer obtains control of promised goods or services in an amount that reflects the consideration that the Company expects to receive in exchange for transferring the products or services to a customer (the “transaction price”). The transaction price includes various forms of variable consideration, as discussed below. In general, the transaction price is paid by customers at contract inception.

For contracts with multiple performance obligations, the transaction price is allocated to each performance obligation on a relative stand-alone selling price (“SSP”) price basis. The SSP is determined at contract inception and is not updated to reflect changes between contract inception and when the performance obligations are satisfied. Determining the SSP for performance obligations requires significant judgment. The SSP for each performance obligation is based on the prices at which the Company separately sells the products and services. If an observable price from stand-alone sales is not available, the Company uses the adjusted market assessment approach, using reasonably available information and applicable inputs, to estimate the selling price of each performance obligation.

PGS

The Company generates PGS revenue by providing customers with a broad suite of genetic reports, including information on customers’ genetic ancestral origins, personal genetic health risks, and chances of passing on certain rare carrier conditions to their children, as well as reports on how genetics can impact responses to medication.

The Company’s contracts with customers for PGS services include multiple performance obligations: (1) initial ancestry reports, (2) ancestry updates, (3) initial health reports, (4) health updates, and (5) subscriptions for extended health insights with access to exclusive reports and features. The transaction price for PGS revenue includes the amount of fixed consideration the Company expects to receive, as well as variable consideration related to refunds. The Company estimates the amount of variable consideration that should be included in the transaction price using the expected value method.

The Company bases its estimates of variable consideration related to refunds on historical data and other information. Estimates include: (i) timing of the returns and fees incurred, (ii) pricing adjustments related to returns and fees, and (iii) the quantity of product that will be returned in the future. Significant judgment is used in determining the appropriateness of these assumptions at each reporting period. Provisions for returns are based on service-level return rates and recent unprocessed return claims, as well as relevant market events and other factors.

The Company estimates the amount of sales that may be refunded and records the estimate as a reduction of revenue and a refund liability in the period the related PGS revenue is recognized. Based on the distribution model for PGS services and the nature of the services being provided, the Company believes there will be minimal refunds and has not experienced material historical refunds.

Revenue is recognized at a point in time upon delivery of the initial ancestry reports and initial health reports to the customer, as the customer obtains control when the report is received.

Revenue is recognized over time for ancestry updates and health updates over the period the customer is estimated to remain active. The Company estimates this period based on the historical average period that the customer continues to engage with the available report updates after the delivery of the initial reports. These updates are provided to the customer, when and if available, throughout the estimated period of activity during which the customer interacts with the PGS service. The Company re-evaluates these estimates at the end of each reporting period and adjusts accordingly. The Company has determined that access to the updates, when and if available, that are provided over the estimated period qualifies as a series of distinct goods or services, for which revenue is recognized ratably over the period estimated by the Company.

Subscription revenue for extended health insights is recognized ratably over the contractual subscription period as the customer benefits from having access to these insights evenly throughout this period.

The Company sells through multiple channels, including direct to consumer via the Company's website and through online retailers. If the customer does not return the Kit for processing, services cannot be completed by the Company, potentially resulting in unexercised rights ("breakage") revenue. To estimate breakage, the Company applies the practical expedient available under ASC 606 to assess its customer contracts on a portfolio basis as opposed to individual customer contracts, due to the similarity of customer characteristics, at the sales channel level. The Company recognizes the breakage amounts as revenue, proportionate to the pattern of revenue recognition of the returning Kits in these respective sales channel portfolios. The Company estimates breakage for the portion of Kits not expected to be returned using an analysis of historical data and considers other factors that could influence customer Kit return behavior. The Company updates its breakage rate estimate periodically and, if necessary, adjusts the deferred revenue balance accordingly. If actual Kit return patterns vary from the estimate, actual breakage revenue may differ from the amounts recorded. The Company recognized breakage revenue from unreturned Kits of \$27.7 million, \$21.9 million and \$24.1 million for the fiscal years ended March 31, 2023, 2022 and 2021, respectively.

Fees paid to certain sales channel partners include, in part, compensation for obtaining PGS contracts. Such contracts have an amortization period of one year or less, and the Company has applied the practical expedient to recognize these costs as sales and marketing expenses when incurred.

Research Services

The Company generates research services revenue by performing research services under agreements with third parties relating to the use of the Company's genotypic and phenotypic data to perform various research activities, including identifying promising drug targets and further researching specific ailments or patient treatment areas.

The Company's contracts with customers for research services can include multiple performance obligations: (1) genotyping, (2) survey, (3) data analysis, (4) recruitment, (5) web development, (6) project management, and (7) dedicated research time. The transaction price for research services revenue includes the amount of fixed consideration the Company expects to receive, as well as variable consideration including, but not limited to, per participant fees, additional compensation for certain industry approvals, payments for milestones achieved early, and penalties for customer delays. The Company estimates the amount of variable consideration that should be included in the transaction price using the most likely amount method.

The Company bases its estimates of variable consideration on historical data and other available information. The Company includes an estimated amount of variable consideration in the transaction price only if it is probable that a subsequent change in the estimate would not result in a significant revenue reversal. Based on the historical data available, the Company believes that there will be minimal amounts of variable consideration earned and, as such, the transaction price for research services is not materially impacted. Variable consideration estimates are revisited at the end of each reporting period and adjustments are made accordingly.

To recognize revenue, the Company compares actual hours incurred to date to the overall total expected hours that will be required to satisfy the performance obligation. The use of personnel hours is a reasonable measure of progress as the Company fulfills its contractual obligations through research performed by the Company's personnel. Revenues are recognized over time as the hours are incurred. All estimates are reviewed by the Company at the end of each reporting period and adjustments are made accordingly.

Telehealth

The Company generates telehealth revenues from pharmacy fees, patient fees, and membership fees. The transaction price for telehealth services includes the amount of fixed consideration the Company expects to receive, as well as variable consideration related to sales deductions, including (1) product returns, including return estimates and (2) fees for transaction processing and chargebacks. The Company estimates the amount of variable consideration that should be included in the transaction price using the expected value method.

The Company estimates the amount of sales that may be refunded and records the estimate as a reduction of revenue and a refund liability in the period the related telehealth revenue is recognized. The Company's customers have limited return rights related to the telehealth services. The Company has not historically experienced material returns and believes that there will be minimal returns in the future. As such, the transaction price for telehealth services is not materially impacted.

Provisions for transaction fees and chargebacks are primarily based on customer-level contractual terms. Accruals and related reserves are adjusted as new information becomes available, which generally consists of actual transaction fees and chargebacks processed relating to sales recognized.

Pharmacy fees, net – The Company primarily generates revenue through sale and delivery of prescription medications from the Affiliated Pharmacies (as defined below). A contract is entered into with a patient when the patient accepts the Company's terms and conditions, requests a prescription, or chooses to refill, and provides access to payment. The Company has determined that these contracts contain one performance obligation. Revenue is recognized at the point in time in which prescription services are rendered for these transactions. Fees are charged as prescription services are rendered. Revenue is recorded net of refunds and transaction fees.

Patient fees, net – The Company primarily generates revenue through the PMCs (as defined below) from patient visit fees, which include healthcare professional consultations, lab testing, and ordering prescriptions. A contract is entered into with a patient when the patient accepts the Company's terms and conditions and provides access to payment. The Company has determined that each service event is a distinct performance obligation. Revenue is recognized at the point in time in which services are rendered for these transactions. Fees are charged upfront prior to services being rendered and are allocated to each obligation to provide services to the patient. Revenue is recorded net of refunds, transaction fees, and pass-through lab and prescription costs.

Membership fees, net – The Company generates revenue through membership fees from patients, which includes a membership for unlimited medical visits and unlimited prescriptions during the membership period (generally one, three or twelve months). A contract is entered into with a patient when the patient accepts the Company's terms and conditions and makes a pre-payment for the membership term. The Company has determined that access to the services over the membership period qualifies as a series of distinct goods or services for which revenue is recognized ratably over the respective membership period. Revenue is recorded net of refunds. Deferred revenue consists of advance payments from members related to membership performance obligations that have not been satisfied for memberships.

In providing telehealth services that include professional medical consultations, the Company maintains relationships with various affiliated professional medical corporations ("PMCs"). PMCs are organized under state law as professional entities that are owned by physicians licensed in the applicable state and that engage licensed healthcare professionals (each, a "Provider" and collectively, the "Providers") to provide consultation services. See Note 8, "*Variable Interest Entities*," for additional details. The Company accounts for service revenue as a principal in the arrangement with its patients.

Additionally, with respect to its telehealth services involving the sale of prescription products, the Company maintains relationships with affiliated pharmacies (collectively, the "Affiliated Pharmacies") to fill prescriptions that are ordered by the Company's patients. The Company accounts for prescription product revenue as a principal in the arrangement with its patients.

Collaborations

From time to time the Company enters into collaboration arrangements in which both parties are active participants in the arrangement and are exposed to the significant risks and rewards of the collaboration, in which case the collaboration is within the scope of ASC Topic 808, *Collaborative Arrangements*. Within such collaborations, the Company determines if any obligations are an output of the Company's ordinary activities in exchange for consideration, and if so, the Company applies ASC 606 to such activities.

For other payments received from the other party for other collaboration activities related to various development, launch and sales milestones of licensed products, or royalties related to net sales of licensed products, the Company analogizes to ASC 606. Such payments will be recognized when the related activities occur as they are determined to relate predominantly to the license of intellectual property transferred to the other party and therefore have also been excluded from the transaction price allocated to the performance

obligations determined under ASC 606. To date, no consideration in this regard has been received under the Company's collaboration agreements.

Cost of Revenue

Cost of revenue for PGS primarily consists of cost of raw materials, lab processing fees, personnel-related expenses, including salaries and benefits and stock-based compensation, shipping and handling, and allocated overhead. Shipping costs for the Kits are incurred prior to fulfillment of consumer services obligations and the corresponding shipping and handling expense is reported in cost of revenue.

Cost of revenue for research services primarily consists of personnel-related expenses, including salaries, benefits and stock-based compensation, and allocated overhead.

Research and Development

Research and development costs primarily consist of personnel-related expenses, including salaries, benefits and stock-based compensation, associated with the Company's research and development personnel, collaboration expenses, laboratory services and supplies costs, third-party data services, and allocated overhead. Research and development costs are expensed as incurred.

Advertising Costs

Advertising costs consist primarily of direct expenses related to television and radio advertising, including production and branding, paid search, online display advertising, direct mail, and affiliate programs. Advertising production costs are expensed the first time the advertising takes place, and all other advertising costs are expensed as incurred. Advertising costs amounted to \$49.1 million, \$54.7 million and \$11.2 million for the fiscal years ended March 31, 2023, 2022 and 2021, respectively, and are included in sales and marketing expense in the consolidated statements of operations and comprehensive loss.

Deferred advertising costs primarily consist of vendor payments made in advance to secure media spots across varying media channels, as well as production costs incurred before the first time the advertising takes place. Deferred advertising costs are not expensed until first used. The deferred advertising costs were \$1.6 million and \$0.7 million as of March 31, 2023 and 2022, respectively. Deferred advertising costs are included in prepaid expenses and other current assets in the consolidated balance sheets.

Stock-Based Compensation

Stock-based compensation expense related to stock-based awards for employees and non-employees is recognized based on the fair value of the awards granted. The fair value of each stock option is estimated on the grant date using the Black-Scholes option pricing model. The Black-Scholes option pricing model requires the input of highly subjective assumptions, including the expected term of the stock-based award, the expected volatility of the price of the Company's common stock, risk-free interest rates, and the expected dividend yield of common stock. The fair value of each RSU is estimated based on the fair value of the common stock on the grant date. Prior to the Merger, the Company determined the fair value of its common stock for financial reporting as of each grant date based on numerous objective and subjective factors and management's judgment. Subsequent to the Merger, the Company determines the fair value using the market closing price of its common stock on the date of grant. The related stock-based compensation expense is recognized on a straight-line basis over the requisite service period of the awards, including awards with graded vesting and no additional conditions for vesting other than service conditions. The Company accounts for forfeitures as they occur.

The Company's Employee Stock Purchase Plan ("ESPP") permits U.S. employees, including executive officers, employed by the Company, except for those holding five percent or more of the total combined voting power or value of all classes of the Company's stock, may participate in the ESPP and may contribute, normally through payroll deductions, up to 15% of their earnings (as defined in the ESPP) for the purchase of the Company's Class A common stock during pre-specified offering periods under the ESPP. Class A common stock will be purchased for the accounts of employees participating in the ESPP at a price per share that is at least the lesser of (i) 85% of the fair market value of a share of the Company's Class A common stock on the first date of an offering, or (ii) 85% of the fair market value of a share of the Company's Class A common stock on the date of purchase. No employee may purchase shares under the ESPP at a rate in excess of \$25,000 worth of the Company's Class A common stock based on the fair market value per share of the Company's Class A common stock at the beginning of an offering for each calendar year such purchase right is outstanding. The ability to purchase shares of the Company's common stock for a discount represents an option and, therefore, the ESPP is considered a compensatory plan. Accordingly, stock-based compensation expense is determined based on the option's grant-date fair value as estimated by applying the Black Scholes option-pricing model and is recognized over the requisite service period, which is the withholding period. See Note 14, "Equity Incentive Plans and Stock-Based Compensation," for additional details.

The Company's fiscal year 2023 annual incentive bonuses will be paid in the form of RSUs based upon the Company's achievement of certain pre-established financial, operational, and strategic performance metrics. The number of the RSUs is determined by dividing the dollar amount of the incentive bonus by the trailing average closing price of the Company's Class A common stock for a defined period of time determined by the Compensation Committee of the Board of Directors. The Company accounts for the RSUs as liability awards and adjusts the liability and corresponding expenses at the end of each quarter until the date of settlement, considering the probability that the performance conditions will be satisfied. The liability of the awards is included in other current liabilities on the Company's consolidated balance sheet. See Note 14, "Equity Incentive Plans and Stock-Based Compensation," for additional details.

Income Taxes

The Company applies the provisions of ASC Topic 740, *Income Taxes* ("ASC 740"). Under ASC 740, the Company accounts for income taxes using the asset and liability method whereby deferred tax assets and liabilities are determined based on temporary differences between the bases used for financial reporting and income tax reporting purposes. Deferred income taxes are provided based on the enacted tax rates and laws that will be in effect at the time such temporary differences are expected to reverse. A valuation allowance is provided for deferred tax assets if it is more likely than not that the Company will not realize those tax assets through future operations.

The Company also utilizes the guidance in ASC 740 to account for uncertain tax positions. ASC 740 contains a two-step approach to recognizing and measuring uncertain tax positions. The first step is to evaluate the tax position for recognition by determining if the weight of available evidence indicates it is more likely than not that the position will be sustained on audit, including resolution of related appeals or litigation processes, if any. The second step is to measure the tax benefit as the largest amount which is more likely than not of being realized and effectively settled. The Company considers many factors when evaluating and estimating the Company's tax positions and tax benefits, which may require periodic adjustments, and which may not accurately reflect actual outcomes. The Company recognizes interest and penalties on unrecognized tax benefits as a component of provision for income taxes in the consolidated statements of operations and comprehensive loss. See Note 17, "Income Taxes," for additional details.

Business Combinations

The Company accounts for its business combinations using the acquisition method of accounting, which requires, among other things, allocation of the fair value of purchase consideration to the tangible and intangible assets acquired and liabilities assumed at their estimated fair values on the acquisition date. The excess of the fair value of purchase consideration over the values of these identifiable assets and liabilities is recorded as goodwill. The results of businesses acquired in a business combination are included in the Company's consolidated financial statements from the date of acquisition. Acquisition costs, such as legal and consulting fees, are expensed as incurred.

Determining the fair value of assets acquired and liabilities assumed requires management to use significant judgment and estimates, including the selection of valuation methodologies, estimates of future revenue and cash flows, discount rates, and selection of comparable companies. The estimates and assumptions used to determine the fair values and useful lives of identified intangible assets could change due to numerous factors, including market conditions, technological developments, economic conditions, and competition. The Company's estimates of fair value are based upon assumptions believed to be reasonable, but which are inherently uncertain and unpredictable and, as a result, actual results may differ from estimates. During the measurement period, not to exceed one year from the date of acquisition, the Company may record adjustments to the assets acquired and liabilities assumed, with a corresponding offset to goodwill if new information is obtained related to facts and circumstances that existed as of the acquisition date. After the measurement period, any subsequent adjustments are reflected in the consolidated statements of operations and comprehensive loss.

When the Company issues stock-based or cash awards to an acquired company's stockholders, the Company evaluates whether the awards are consideration or compensation for post-acquisition services. The evaluation includes, among other things, whether the vesting of the awards is contingent on the continued employment of the acquired company's stockholders beyond the acquisition date. If continued employment is required for vesting, the awards are treated as compensation for post-acquisition services and recognized as expense over the requisite service period.

Uncertain tax positions and tax-related valuation allowances are initially established in connection with a business combination as of the acquisition date. The Company continues to collect information and reevaluate these estimates and assumptions quarterly. The Company will record any adjustments to its preliminary estimates to goodwill, provided that it is within the one-year measurement period.

Variable Interest Entities

The Company evaluates its ownership, contractual, and other interests in entities to determine if it has any variable interest in a variable interest entity (“VIE”) and if it is the primary beneficiary. These evaluations are complex and involve judgment. If the Company determines that an entity in which it holds a contractual or ownership interest is a VIE and that the Company is the primary beneficiary, the Company consolidates such entity in its consolidated financial statements. The primary beneficiary of a VIE is the party that meets both of the following criteria: (i) has the power to make decisions that most significantly affect the economic performance of the VIE, and (ii) has the obligation to absorb losses or the right to receive benefits that in either case could potentially be significant to the VIE. Management performs ongoing reassessments of whether changes in the facts and circumstances regarding the Company’s involvement with a VIE will cause the consolidation conclusion to change. Changes in consolidation status are applied prospectively.

Foreign Currency

The reporting currency of the Company is the United States dollar. The Company determines the functional currency of each subsidiary based on the currency of the primary economic environment in which each subsidiary operates. Items included in the financial statements of such subsidiaries are measured using that functional currency. The functional currency of the Company’s foreign subsidiary is the British Pound. Foreign currency denominated monetary assets and liabilities are remeasured into U.S. dollars at period-end exchange rates and foreign currency denominated nonmonetary assets and liabilities are remeasured into U.S. dollars at historical exchange rates. Equity transactions are translated using historical exchange rates. Revenue and expenses are translated at the average exchange rates during the period. The resulting translation adjustments are recorded in accumulated other comprehensive income as a component of stockholders’ equity (deficit). Foreign currency transaction gains and losses are recognized in other (expense) income, net in the consolidated statements of operations and comprehensive loss, and have not been material for any of the periods presented.

Comprehensive Loss

Comprehensive loss is composed of two components: net loss and other comprehensive income (loss). The Company’s changes in foreign currency translation represents the components of other comprehensive income (loss) that are excluded from the reported net loss.

Net Loss Per Share Attributable to Common Stockholders

The Company computes net loss per share using the two-class method required for participating securities. The two-class method requires income available to common stockholders for the period to be allocated between common stock and participating securities based upon their respective rights to receive dividends as if all income for the period had been distributed. The Company determined that it had participating securities in the form of redeemable convertible preferred stock prior to the date of conversion and unvested common stock as holders of such securities had non-forfeitable dividend rights in the event of a declaration of a dividend for shares of common stock prior to the vesting date. These participating securities do not contractually require the holders of such stocks to participate in the Company’s losses. As such, net loss for the period presented was not allocated to the Company’s participating securities.

The Company’s basic net loss per share is calculated by dividing net loss attributable to common stockholders by the weighted-average number of shares of common stock outstanding for the period, without consideration of potentially dilutive securities. The diluted net loss per share is calculated by giving effect to all potentially dilutive securities outstanding for the period using the treasury share method or the if-converted method based on the nature of such securities. Diluted net loss per share is the same as basic net loss per share in periods when the effects of potentially dilutive shares of ordinary shares are anti-dilutive. See Note 15, “*Net Loss Per Share Attributable to Common Stockholders*,” for additional details.

Related Parties

A party is considered to be related to the Company if the party, directly or indirectly, controls, is controlled by, or is under common control with the Company, including principal owners of the Company, its management, members of the immediate families of principal owners of the Company and its management, and other parties with which the Company may deal and can significantly influence the management or operating policies to an extent that one of the transacting parties might be prevented from fully pursuing its own separate interests. See Note 18, “*Related Party Transactions*,” for additional details.

Recently Adopted Accounting Pronouncements

In August 2020, the Financial Accounting Standards Board (“FASB”) issued Accounting Standards Update (“ASU”) No. 2020-06, *Debt with Conversion and Other Options (Subtopic 470-20) and Derivatives and Hedging—Contracts in Entity’s Own Equity (Subtopic 815-40): Accounting for Convertible Instruments and Contracts in an Entity’s Own Equity* (“ASU 2020-06”), which simplifies the accounting for certain financial instruments with characteristics of liabilities and equity, including convertible instruments and contracts on an entity’s own equity, and clarifies the guidance on the computation of earnings per share for those financial instruments.

The guidance was effective for the Company beginning April 1, 2022. The Company adopted ASU 2020-06 as of April 1, 2022, and the adoption did not have a material impact on its consolidated financial statements and related disclosures.

3. Recapitalization

As discussed in Note 1, “*Organization and Description of Business*,” on the Closing Date, VGAC completed the acquisition of 23andMe, Inc. and acquired 100% of 23andMe, Inc.’s shares. 23andMe, Inc. received gross proceeds of \$559.7 million, which includes \$309.7 million in proceeds from issuance of common stock upon the consummation of the Merger and \$250.0 million in proceeds from the PIPE Investment (as defined below). The Company recorded \$33.7 million of transaction costs, which consisted of legal, accounting, and other professional services directly related to the Business Combination. These costs were included in additional paid-in capital on the Company’s consolidated balance sheet. The cash outflows related to these costs were presented as financing activities on the Company’s consolidated statement of cash flows. These deferred offering costs are offset against proceeds upon accounting for the consummation of the Merger. On the Closing Date, each holder of 23andMe, Inc. Class A common stock received approximately 2.293698169 shares of the Company’s Class A common stock, par value \$0.0001 per share, and each holder of 23andMe, Inc. Class B common stock received approximately 2.293698169 shares of the Company’s Class B common stock, par value \$0.0001 per share. See Note 13, “*Stockholders’ Equity*,” for additional details of the Company’s stockholders’ equity prior to and subsequent to the Merger.

All equity awards of 23andMe, Inc. were assumed by the Company and converted into comparable equity awards that are settled or exercisable for shares of the Company’s Class A common stock. As a result, each outstanding stock option was converted into an option to purchase shares of the Company’s Class A common stock based on an exchange ratio of 2.293698169, and each outstanding restricted stock unit was converted into restricted stock units of the Company that, upon vesting, may be settled for shares of the Company’s Class A common stock based on an exchange ratio of 2.293698169.

Each public and private warrant of VGAC that was unexercised at the time of the Merger was assumed by the Company and represented the right to purchase one share of the Company’s Class A common stock upon exercise of such warrant.

The Merger was accounted for as a reverse recapitalization with 23andMe, Inc. as the accounting acquirer and VGAC as the acquired company for accounting purposes. 23andMe, Inc. was determined to be the accounting acquirer since 23andMe, Inc.’s stockholders prior to the Merger had the greatest voting interest in the combined entity, 23andMe, Inc.’s stockholders appointed the initial directors of the combined Board of Directors and control future appointments, 23andMe, Inc. comprises all of the ongoing operations, and 23andMe, Inc.’s senior management directs operations of the combined entity. Accordingly, all historical financial information presented in these consolidated financial statements represents the accounts of 23andMe, Inc. and its wholly owned subsidiary. Net assets were stated at historical cost consistent with the treatment of the transaction as a reverse recapitalization of 23andMe, Inc.

Lock-Up and Earn-Out Shares

Pursuant to the Company’s Bylaws, shares of Class A common stock received as consideration in connection with the Merger (or securities convertible into or exchangeable for shares of Class A common stock) could not be sold or otherwise disposed of or hedged by its stockholders for a period of 180 days after the Closing Date (the “Lock-Up Period”). Except with respect to securities subject to the Sponsor Letter Agreement (as defined below) or as otherwise restricted by applicable securities laws or Company policies, following the expiration of the Lock-Up Period on December 14, 2021, the Company’s stockholders were no longer restricted from selling securities held by them.

Pursuant to a Letter Agreement (the “VGAC IPO Letter Agreement”) entered into on October 1, 2020 by and among VGAC, VG Acquisition Sponsor LLC (the “Sponsor”), and the then officers and directors of VGAC (collectively, the “VGAC Insiders”), as amended by a Sponsor Letter Agreement (the “Sponsor Letter Agreement”), dated as of February 4, 2021, by and among 23andMe, Inc., VGAC, the Sponsor, the VGAC Insiders and Credit Suisse Securities (USA) LLC as representative of the several underwriters named in the underwriting agreement with respect to the initial public offering of VGAC (the “Underwriters”), the VGAC Insiders agreed to certain transfer restrictions applicable to 12,713,750 of the Class B ordinary shares of VGAC held by the Sponsor and VGAC Insiders (the “Founder Shares”), which were converted in the Business Combination to a like number of shares of Class A common stock of the Company. Pursuant to the VGAC IPO Letter Agreement, as amended by the Sponsor Letter Agreement, 70% of the Founder Shares cannot be transferred (subject to certain limited exceptions) until the earlier to occur of (i) one year after the Closing Date, or (ii) the date following the completion of the Business Combination on which the Company completes a liquidation, merger, share exchange, or other similar transaction that results in all of the stockholders having the right to exchange their ordinary shares for cash, securities, or other property. Notwithstanding the foregoing, if the closing price of the Company’s Class A common stock equals or exceeds \$12.00 per share (as adjusted for share sub-divisions, share capitalizations, reorganizations, recapitalizations and the like) for any 20 trading days within any 30-trading-day period commencing at least 150 days after the Business Combination, 70% of the Founder Shares will be released from the lock-up. Following the one-year anniversary of the Closing Date, the Founder Shares were released and distributed

to the Sponsors and VGAC Insiders in August 2022. The Founder Shares are issued and outstanding Class A common shares that cannot be forfeited, and as such meet the criteria for equity classification in accordance with ASC 505, *Equity* (“ASC 505”).

Following the closing of the Merger, 3,814,125 of the Class B ordinary shares of VGAC held by the Sponsor as of the date of the Sponsor Letter Agreement (the “Earn-Out Shares”), which constitute the remaining 30% of the Founder Shares, and were converted in the Business Combination into a like number of shares of the Company’s Class A common stock, are subject to a lock-up of seven years. The lock-up has an early release effective (i) with respect to 50% of the Earn-Out Shares, upon the closing price of the Company’s Class A common stock equaling or exceeding \$12.50 per share for any 20 trading days within any 30-trading-day period, and (ii) with respect to the other 50% of the Earn-Out Shares, upon the closing price of the Company’s Class A common stock equaling or exceeding \$15.00 per share for any 20 trading days within any 30-trading-day period; provided that the transfer restrictions applicable to the Earn-Out Shares will terminate on the date following the closing date on which the Company completes a liquidation, merger, amalgamation, capital stock exchange, reorganization, or other similar transaction that results in all of the Company’s public stockholders having the right to exchange their shares of Class A common stock for cash, securities, or other property (a “Liquidation Event”), if such Liquidation Event occurs prior to the date that the stock price thresholds referenced in (i) and (ii) are met. As of March 31, 2023, the Company did not meet any earn out thresholds. The Earn-Out Shares are issued and outstanding Class A common shares that cannot be forfeited, and as such meet the criteria for equity classification in accordance with ASC 505.

PIPE Investment

On February 4, 2021, concurrently with the execution of the Merger Agreement, VGAC entered into subscription agreements with certain investors (the “PIPE Investors”) to which such investors collectively subscribed for an aggregate of 25,000,000 shares of the Company’s Class A common stock at \$10.00 per share for aggregate gross proceeds of \$250.0 million (the “PIPE Investment”). The Anne Wojcicki Foundation, which subscribed for 2,500,000 shares of the Company’s Class A common stock, is affiliated with the Company’s CEO and therefore a related party. The PIPE Investment was consummated concurrently with the closing of the Merger.

4. Acquisition

On November 1, 2021, the Company completed the Lemonaid Acquisition and acquired all of the outstanding equity of Lemonaid Health. The purchase price consideration was \$424.7 million, which includes the value of 26,825,241 shares of the Company’s Class A common stock valued at \$314.4 million as of the acquisition date, the fair value of the pre-acquisition service portion of stock-based awards that were vested as of the Lemonaid Acquisition of \$8.4 million, and cash payment of approximately \$101.9 million, of which \$13.0 million was placed in escrow to cover a potential purchase price adjustment and to secure the indemnification obligations of the former equity holders of Lemonaid Health. \$6.0 million of the escrow amount was released in May 2023, and any remaining escrow amount will be released in May 2024.

The purchase price consideration excludes stock consideration of 3,747,027 shares issued by the Company to certain holders that are subject to vesting restrictions tied to continuing employment with the Company, which is recognized as selling, general, and administrative expenses post-acquisition. See Note 14, “*Equity Incentive Plans and Stock-Based Compensation*,” for additional details. The Company also incurred acquisition costs of \$9.4 million directly related to the Lemonaid Acquisition, which were recorded within general and administrative expenses on the consolidated statements of operations and comprehensive loss.

The Company accounts for acquisitions using the acquisition method with the purchase price being allocated to tangible and identifiable intangible assets acquired and liabilities assumed based on their respective estimated fair values on the acquisition date. The following is the allocation of the consideration transferred to acquired identifiable assets and assumed liabilities, net of cash acquired, in the Lemonaid Acquisition as of the acquisition date:

	Amount
	(in thousands)
Cash	\$ 7,711
Prepaid expenses and other current assets	3,388
Property and equipment, net	1,019
Intangible Assets:	
Customer relationships	14,900
Partnerships	23,200
Trademark	11,000
Developed technology	24,100
Non-compete agreements	2,800
Operating lease right-of-use asset	848
Other assumed assets	407
Accounts payable	(3,106)
Accrued liabilities	(4,218)
Operating lease liability	(971)
Deferred tax liability	(6,645)
Other assumed liabilities	(1,311)
Total acquired identifiable assets and liabilities	73,122
Goodwill	351,598
Total consideration transferred	\$ 424,720

Identifiable assets and liabilities acquired or assumed are measured separately at their fair values as of the acquisition date. The fair value measurements of the identified intangible assets were based primarily on significant unobservable inputs and thus represent a Level 3 measurement as defined in ASC Topic 820, *Fair Value Measurement* ("ASC 820"). The fair values of the trade name and the developed technology were determined using the relief-from-royalty method under the income approach. This involves forecasting avoided royalties, reducing them by taxes, and discounting the resulting net cash flows to a present value using an appropriate discount rate. Judgment was applied for a number of assumptions in valuing the identified intangible assets, including revenue and cash flow forecasts, survival rates, technology life, royalty rate, obsolescence and discount rate. The fair value of customer relationships was determined using the replacement cost approach. This approach consists of developing an estimate of the current cost of a similar new asset having the nearest equivalent utility to the asset or group of assets being valued and involves the estimation of all the costs incurred and accumulated in the development effort and application of any related obsolescence factors. The fair value of partnerships was determined using the multi-period excess earnings method. This involves forecasting the net earnings expected to be generated by the asset, reducing them by appropriate returns on contributory assets, and then discounting the resulting net cash flows to a present value using an appropriate discount rate. The fair value of the non-compete agreements was determined using the with and without method, a variation of the income approach. The with and without method is based on the difference between cash flows for two different scenarios. For the first scenario, the prospective cash flows for the business are projected assuming the non-compete agreements are in place, and for the second scenario, the prospective cash flows for the business are estimated assuming that the non-compete agreements are not in place.

Amortization expense related to identified intangible assets is recognized on a straight-line basis over the assets' useful lives of two to seven years. Amortization expense is recognized within cost of revenue for developed technology, sales and marketing expense for customer relationships, partnerships and trademark, and general and administrative expense for non-compete agreements, in the consolidated statements of operations and comprehensive loss. Amortization expense for fiscal years ended March 31, 2023 and 2022 was \$16.5 million and \$7.3 million, respectively.

The excess of the consideration paid over the fair value of the net assets acquired is recorded as goodwill. The acquired goodwill of \$351.7 million is assigned to the Consumer and Research Services segment and represents future economic benefits expected to arise from synergies from combining operations and commercial organizations to increase market presence and the extension of existing customer relationships. The goodwill recognized upon acquisition is not expected to be deductible for income tax purposes.

As a result of the acquisition and due to basis differences created from the accounting for the combination, the Company acquired a net deferred tax liability of \$6.6 million. The Company's deferred tax liabilities were partially offset with its deferred tax assets causing a release of the Company's income tax valuation allowance. The release resulted in an income tax benefit of \$3.5 million for the fiscal year ended March 31, 2022. The Company had a remaining foreign deferred tax liability of \$3.1 million as of March 31, 2022, which was reversed in the fiscal year ended March 31, 2023 due to impairment charges related to an acquired intangible asset.

From the closing of the Lemonaid Acquisition date through March 31, 2022, the Company recognized revenue of \$19.2 million and net loss of \$22.3 million related to Lemonaid Health. The pro forma financial information in the table below summarizes the

combined results of operations for the Company and Lemonaid Health as if the companies had been combined as of April 1, 2020. The pro forma revenue and net loss is presented for informational purposes only and does not purport to be indicative of the results of future operations or the results that would have occurred had the transaction taken place on April 1, 2020.

	Year Ended March 31,	
	2022	2021
	(in thousands)	
Pro forma revenue ⁽¹⁾	\$ 295,025	\$ 271,532
Pro forma net loss ⁽¹⁾	\$ (241,382)	\$ (237,162)

(1) As if the Lemonaid Acquisition was consummated on April 1, 2020.

The pro forma financial information includes pro forma adjustments related to the valuation and allocation of the purchase price, primarily amortization of acquired intangible assets, additional stock-based compensation expense related to accelerated vesting of options in connection with the acquisition, additional stock-based compensation expense related to replacement awards issued in connection with the acquisition, amortization of representation and warranty insurance procured in connection with the acquisition, and direct transaction costs reflected in the historical financial statements.

5. Revenue

Disaggregation of Revenue

The following table presents revenue by category:

	Year Ended March 31,					
	2023		2022		2021	
	Amount	% of Revenue	Amount	% of Revenue	Amount	% of Revenue
	(in thousands, except percentages)					
Point in Time						
PGS	\$ 182,866	61 %	\$ 189,703	70 %	\$ 191,066	78 %
Telehealth	34,961	12 %	15,299	6 %	—	0 %
Consumer services	217,827	73 %	205,002	76 %	191,066	78 %
Research services	—	0 %	—	0 %	—	0 %
Therapeutics	—	0 %	—	0 %	54	0 %
Total	\$ 217,827	73 %	\$ 205,002	76 %	\$ 191,120	78 %
Over Time						
PGS	\$ 19,548	7 %	\$ 12,978	5 %	\$ 6,459	3 %
Telehealth	9,761	3 %	3,908	1 %	—	0 %
Consumer services	29,309	10 %	16,886	6 %	6,459	3 %
Research services	52,353	17 %	50,005	18 %	46,341	19 %
Therapeutics	—	0 %	—	0 %	—	0 %
Total	\$ 81,662	27 %	\$ 66,891	24 %	\$ 52,800	22 %
Revenue by Category						
PGS	\$ 202,414	68 %	\$ 202,681	75 %	\$ 197,525	81 %
Telehealth	44,722	15 %	19,207	7 %	—	0 %
Consumer services	247,136	83 %	221,888	82 %	197,525	81 %
Research services	52,353	17 %	50,005	18 %	46,341	19 %
Therapeutics	—	0 %	—	0 %	54	0 %
Total	\$ 299,489	100 %	\$ 271,893	100 %	\$ 243,920	100 %

The following table summarizes revenue by region based on the shipping address of customers or the location where the services are delivered:

	Year Ended March 31,					
	2023		2022		2021	
	Amount	% of Revenue	Amount	% of Revenue	Amount	% of Revenue
	(in thousands, except percentages)					
United States	\$ 217,242	73 %	\$ 192,438	71 %	\$ 176,120	72 %
United Kingdom	63,023	21 %	58,477	22 %	49,386	20 %
Canada	13,581	4 %	14,293	5 %	12,172	5 %
Other regions	5,643	2 %	6,685	2 %	6,242	3 %
Total	\$ 299,489	100 %	\$ 271,893	100 %	\$ 243,920	100 %

Contract Balances

Accounts receivable are recorded when the right to consideration becomes unconditional. Contract assets include amounts associated with contractual rights related to consideration for performance obligations and are included in prepaid expenses and other current assets on the consolidated balance sheets. The amount of contract assets was immaterial as of March 31, 2023 and 2022.

Contract liabilities consist of deferred revenue. Revenue is deferred when the Company invoices in advance of fulfilling performance obligations under a contract. Deferred revenue primarily relates to Kits that have been shipped to consumers and non-consigned retail sites but not yet returned for processing by the consumer, as well as research services billed in advance of performance. Deferred revenue is recognized when the obligation to deliver results to the customer is satisfied and when research services are ultimately performed. Deferred revenue also consists of advance payments from members related to membership performance obligations and from customers related to subscription for extended health insight performance obligations that have not been satisfied as of the balance sheet date. Deferred revenue is recognized when the obligation to deliver membership services or subscription services is satisfied.

As of March 31, 2023 and 2022, deferred revenue for consumer services was \$48.6 million and \$51.3 million, respectively. Of the \$51.3 million and \$39.3 million of deferred revenue for consumer services as of March 31, 2022 and 2021, respectively, the Company recognized \$46.6 million and \$31.9 million as revenue during the fiscal years ended March 31, 2023 and 2022, respectively.

As of March 31, 2023 and 2022, deferred revenue for research services was \$14.0 million and \$11.6 million, respectively, which included related party deferred revenue amounts of \$11.8 million and \$9.2 million, respectively. Of the \$11.6 million and \$31.9 million of deferred revenue for research services as of March 31, 2022 and 2021, respectively, the Company recognized \$9.7 million and \$31.4 million as revenue during the fiscal years ended March 31, 2023 and 2022, respectively, which included related party revenue amounts of \$9.2 million and \$30.1 million, respectively.

Remaining Performance Obligations

The transaction price allocated to remaining performance obligations represents contracted revenue that has not yet been recognized, which includes deferred revenue and amounts that are expected to be billed and recognized as revenue in future periods. The Company has utilized the practical expedient available under ASC 606 to not disclose the value of unsatisfied performance obligations for PGS and telehealth as those contracts have an expected length of one year or less. As of March 31, 2023, the aggregate amount of the transaction price allocated to remaining performance obligations for research services was \$21.6 million. The Company expects to recognize revenue on approximately 91% of this amount over the next 12 months and the remainder thereafter. During the fiscal years ended March 31, 2023, 2022 and 2021, the Company did not recognize any revenue for performance obligations satisfied in prior periods.

6. Collaborations

GlaxoSmithKline Agreement

In July 2018, the Company and an affiliate of GSK entered into a four-year exclusive drug discovery and development collaboration agreement (the "GSK Agreement") for collaboration on identification and development of therapeutic agents with a unilateral option for GSK to extend the term for an additional year. In January 2022, GSK elected to exercise the option to extend the exclusive target discovery term for an additional year to July 2023. In October 2022, the Company received a one-time payment of \$50.0 million from GSK in consideration of the exercise of the option pursuant to the GSK Agreement.

The Company concluded that GSK is considered a customer. Therefore, the Company has applied the guidance in ASC 606 to account for and present consideration received from GSK related to research services provided by the Company. The Company's activities under the GSK Agreement, which include reporting, drug target discovery, and joint steering committee participation, represent one combined performance obligation to deliver research services. In addition, the GSK Agreement, along with subsequent amendments, provided GSK the right to include certain identified pre-existing Company programs in the collaboration at GSK's election, each of which is considered distinct from the research services. The exercise price for the pre-existing program options varied to reflect the respective stage of development of each such program, with up to two such programs being offered for no additional charge. The two programs offered for no additional charge were material rights and therefore also identified as performance obligations within the arrangement. The Company recognizes research services revenue related to the GSK Agreement as the performance obligation is satisfied using an input method to measure progress. The Company believes that actual hours incurred relative to projected hours is the most accurate measurement of progress for the input method.

In addition to cost-sharing during the performance of research services which is recorded within cost of revenue when incurred in the Consumer and Research Services segment, once drug targets have been identified for inclusion in the collaboration, the Company and GSK equally share in the costs of further research, development, and commercialization of identified targets, subject to certain rights of either party to opt-out of funding at certain predetermined development milestones. These cost-sharing charges for costs incurred subsequent to the identification of drug targets have been included in research and development expense on the consolidated statements of operations and comprehensive loss during the period incurred. The Company may also share in the net profits or losses of products that are commercialized pursuant to the collaboration or receive royalties on products which are successfully commercialized.

The Company recognized research services revenue related to the GSK Agreement of \$47.4 million, \$46.1 million and \$39.9 million during the fiscal years ended March 31, 2023, 2022 and 2021, respectively. As of March 31, 2023 and 2022, the Company had deferred revenue, all of which was current, related to the GSK Agreement of \$11.8 million and \$9.2 million, respectively. Cost-sharing amounts incurred prior to the identification of targets included in cost of revenue were \$0.5 million, \$0.3 million and \$(1.4) million during the fiscal years ended March 31, 2023, 2022 and 2021, respectively. Cost-sharing amounts incurred subsequent to the identification of targets, included in research and development expenses, were \$10.7 million, \$24.0 million and \$18.7 million during the fiscal years ended March 31, 2023, 2022 and 2021, respectively. As of March 31, 2023 and 2022, the Company had \$11.9 million and \$18.3 million, respectively, related to balances of amounts payable to GSK for reimbursement of shared costs included within accounts payable and accrued expenses and other current liabilities on the consolidated balance sheets.

GSK's affiliate, Glaxo Group Limited, held shares of the Company's Class B common stock, representing 20.1% and 16.3% of the Company's combined voting power as of March 31, 2023 and 2022, respectively; therefore, GSK is considered as a related party to the Company.

7. Segment Information

The Company currently operates in two reporting segments: Consumer and Research Services, and Therapeutics. The Consumer and Research Services segment consists of revenue and expenses from PGS and telehealth, as well as research services revenue and expenses from certain collaboration agreements (including the GSK Agreement). The Therapeutics segment consists of revenues from the out-licensing of intellectual property associated with identified drug targets and expenses related to therapeutic product candidates under clinical development. Substantially all of the Company's revenues are derived from the Consumer and Research Services segment. See Revenue Recognition within Note 5, "Revenue," for additional information regarding revenue. There are no inter-segment sales.

Certain department expenses such as Finance, Legal, Regulatory and Supplier Quality, Corporate Communications and CEO Office are not reported as part of the reporting segments as reviewed by the CODM (as defined below). These amounts are included in Unallocated Corporate in the reconciliations below. The chief operating decision-maker ("CODM") is the Chief Executive Officer ("CEO"). The CODM evaluates the performance of each segment based on Adjusted EBITDA. Adjusted EBITDA is a non-GAAP financial measure that is defined as net income (loss) before net interest income (expense), net other income (expense), income tax expenses (benefit), depreciation and amortization, impairment charges, stock-based compensation expense, acquisition-related costs, and other items that are considered unusual or not representative of underlying trends of our business, including but not limited to: changes in fair value of warrant liabilities, litigation settlement, and restructuring and other charges, if applicable for the periods presented.

Adjusted EBITDA is a key measure used by the Company's management and Board of Directors to understand and evaluate the Company's operating performance and trends, to prepare and approve the annual budget, and to develop short-term and long-term operating plans. In particular, the exclusion of the items eliminated in calculating Adjusted EBITDA provides useful measures for period-to-period comparisons of the Company's business. Accordingly, Adjusted EBITDA provides useful information in understanding and evaluating the Company's operating results in the same manner as management and the Board of Directors. Adjusted EBITDA should not be considered in isolation of, or as an alternative to, measures prepared in accordance with GAAP. Other companies, including companies in the Company's industry, may calculate similarly-titled non-GAAP financial measures differently or may use other measures to evaluate their performance, all of which could reduce the usefulness of Adjusted EBITDA as a tool for comparison. There are a number of limitations related to the use of these non-GAAP financial measures rather than net loss, which is the most directly comparable financial measure calculated in accordance with GAAP.

Some of the limitations of Adjusted EBITDA include (i) Adjusted EBITDA does not properly reflect capital commitments to be paid in the future, and (ii) although depreciation and amortization are non-cash charges, the underlying assets may need to be replaced and Adjusted EBITDA does not reflect these capital expenditures. In evaluating Adjusted EBITDA, the Company will incur expenses similar to the adjustments in this presentation in the future. The presentation of Adjusted EBITDA should not be construed as an inference that the Company's future results will be unaffected by these expenses or any unusual or non-recurring items. When evaluating the Company's performance, Adjusted EBITDA should be considered alongside other financial performance measures, including net loss and other GAAP results.

The Company's revenue and Adjusted EBITDA by segment is as follows:

	Year Ended March 31,		
	2023	2022	2021
	(in thousands)		
Segment Revenue:			
Consumer and Research Services	\$ 299,489	\$ 271,893	\$ 243,866
Therapeutics	-	-	54
Total revenue	<u>\$ 299,489</u>	<u>\$ 271,893</u>	<u>\$ 243,920</u>
Segment Adjusted EBITDA:			
Consumer and Research Services Adjusted EBITDA	\$ (17,997)	\$ (30,112)	\$ 12,796
Therapeutics Adjusted EBITDA	(88,503)	(76,944)	(58,734)
Unallocated Corporate ⁽¹⁾	(54,801)	(43,684)	(30,587)
Total Adjusted EBITDA	<u>\$ (161,301)</u>	<u>\$ (150,740)</u>	<u>\$ (76,525)</u>
Reconciliation of net loss to Adjusted EBITDA:			
Net loss	\$ (311,656)	\$ (217,490)	\$ (183,619)
Adjustments			
Interest income, net	(9,676)	(277)	(255)
Other (income) expense, net	93	83	(1,322)
Change in fair value of warrant liabilities	—	(32,989)	—
Income tax benefit	(2,772)	(3,480)	—
Depreciation and amortization	20,239	18,899	20,246
Amortization of acquired intangible assets	16,486	7,269	—
Impairment of acquired intangible asset	9,968	—	—
Stock-based compensation expense	116,017	57,933	88,425
Acquisition-related costs ⁽²⁾	—	9,362	—
Litigation settlement ⁽³⁾	—	9,950	—
Total Adjusted EBITDA	<u>\$ (161,301)</u>	<u>\$ (150,740)</u>	<u>\$ (76,525)</u>

- (1) Certain expenses such as Finance, Legal, Regulatory and Supplier Quality, Corporate Communications, and CEO Office are not reported as part of the reporting segments as reviewed by the CODM. These amounts are included in Unallocated Corporate.
- (2) For the fiscal year ended March 31, 2022, acquisition-related costs primarily consisted of advisory, legal and consulting fees.
- (3) For the fiscal year ended March 31, 2022, litigation settlement is litigation cost net of insurance recoveries, which is not expected to occur on a recurring basis and not part of the Company's normal and continued business activity.

Customers accounting for 10% or more of segment revenues were as follows:

	Year Ended March 31,					
	2023		2022		2021	
	(in thousands, except percentages)					
Consumer and Research Services Segment Revenue:						
Customer C ⁽¹⁾	\$	65,721	22 %	\$	53,875	21 %
Customer B ⁽²⁾	\$	47,448	16 %	\$	46,064	16 %

(1) Customer C revenues are primarily in the United States.

(2) Customer B revenues are in the U.K.

Revenue by geographical region can be found in the revenue recognition disclosures in Note 5, “Revenue.” Substantially all of the Company’s property and equipment, net of depreciation and amortization, was located in the United States during the periods presented. The reporting segments do not present total assets as they are not reviewed by the CODM when evaluating their performance.

8. Variable Interest Entities

Through the Lemonaid Acquisition in November 2021, the Company has service agreements with PMCs and Affiliated Pharmacies. In order for customers to obtain a prescription, customers must complete a consultation through the Company’s website or app with an appropriately licensed medical provider from one of the PMCs. A customer will receive an electronic prescription that will be sent to an Affiliated Pharmacy, or a pharmacy of the customer’s choice, only if the medical provider believes such medical treatment of the customer is safe and appropriate.

The Company provides services pursuant to contracts with the PMCs which employ licensed medical providers to provide telehealth medical services. The PMCs were designed and structured to comply with the relevant laws and regulations governing professional medical practice, which generally prohibit the practice of medicine by lay persons or corporations. To satisfy these regulatory requirements, all of the issued and outstanding equity interests of the PMCs are owned by an appropriately licensed medical professional nominated by the Company (the “Nominee Shareholder”). The Company executes with each PMC a Management Services & Licensing Agreement (“MSA”), which provides for various administrative, technological, and management services to be provided by the Company to the PMCs, licenses certain Company intellectual property to the PMC, and gives the Company rights to impose certain restrictions and conditions of ownership or transfer of the PMC equity by the Nominee Shareholder.

The Company provides all of the necessary capital for the operations of the PMCs through loans to the PMCs. The Company also has exclusive responsibility for the provision of all nonmedical services including operation of all technology platforms used by the PMCs or customers to complete a medical consultation with a Provider, handling all financial transactions and day-to-day operations of each PMC, providing regulatory guidance to the PMCs in establishing telehealth policies and protocols consistent with state and federal law, and making recommendations to the PMCs in establishing the guidelines for employment and compensation of the medical professionals of each PMC. In addition, the MSA provides that the Company has the power and authority to change the Nominee Shareholder upon termination of the MSA, including for convenience upon 180 days prior notice, or other enumerated events, and designate a new Nominee Shareholder, which further constrains the Nominee Shareholder’s rights to returns of the PMC. The Nominee Shareholders, notwithstanding their legal form of ownership of equity interests in the PMCs, have no substantive profit-sharing rights in the PMCs.

The Company has also entered into similar MSAs with the Affiliated Pharmacies. The Affiliated Pharmacies are licensed pharmacies primarily responsible for providing prescription fulfillment services to the Company’s customers. The Company provides management and administrative services to the Affiliated Pharmacies comparable to the services it provides to the PMCs, except that the Company is the sole provider of professional staffing services required to operate the Affiliated Pharmacies. Under the terms of the MSAs with the Affiliated Pharmacies, the Nominee Shareholders, notwithstanding their legal form of ownership of equity interests in the Affiliated Pharmacies, have no substantive profit-sharing rights in the Affiliated Pharmacies.

Based upon the provisions of these agreements, the Company determined that the PMCs and Affiliated Pharmacies are VIEs due to the respective equity holders having nominal capital at risk, and the Company has a variable interest in each of the PMCs and Affiliated Pharmacies. The Company consolidated the PMCs and Affiliated Pharmacies under the VIE model since the Company has the power to direct activities that most significantly impact the VIEs’ economic performance and the right to receive benefits or the obligation to absorb losses that could potentially be significant to the VIEs. Under the VIE model, the Company presents the results of operations and the financial position of the VIEs as part of the consolidated financial statements of the Company.

Furthermore, as a direct result of the financial support the Company provides to the VIEs (e.g., loans), the interests held by holders lack economic substance and do not provide them with the ability to participate in the residual profits or losses generated by the VIEs. Therefore, all income and expenses recognized by the VIEs are allocated to the Company's stockholders.

The aggregate carrying value of total assets and total liabilities included on the consolidated balance sheets for the VIEs after elimination of intercompany transactions were not material as of March 31, 2023 and were \$11.2 million and \$13.3 million, respectively, as of March 31, 2022. Total revenue included on the consolidated statements of operations and comprehensive loss for the VIEs after elimination of intercompany transactions was \$40.2 million and \$19.4 million for the fiscal years ended March 31, 2023 and 2022, respectively. Net income (loss) attributable to the VIEs included on the consolidated statements of operations and comprehensive loss was \$14.0 million and \$(2.1) million for the fiscal years ended March 31, 2023 and 2022, respectively.

9. Fair Value Measurements

Recurring Fair Value Measurements

The fair value of cash, restricted cash, accounts receivable, accounts payable, and accrued liabilities are stated at their carrying value, which approximates fair value due to the short time to the expected receipt or payment date as of March 31, 2023 and 2022.

There were no financial assets or liabilities measured at fair value on a recurring basis as of March 31, 2022 and 2021. The following table presents information about the Company's financial instruments that are measured at fair value on a recurring basis as of March 31, 2023:

	March 31, 2023			
	Fair Value	Level 1	Level 2	Level 3
	(in thousands)			
Financial Assets:				
Money market funds	\$ 372,000	\$ 372,000	\$ —	\$ —
Total financial assets	<u>\$ 372,000</u>	<u>\$ 372,000</u>	<u>\$ —</u>	<u>\$ —</u>

Cash equivalents consist primarily of money market funds and are classified within Level 1 of the fair value hierarchy because they are valued using quoted market prices in active markets.

For the fiscal year ended March 31, 2022, changes in warrant liabilities were primarily related to Private Placement Warrants and Public Warrants defined and discussed in Note 13, "Stockholders' Equity." The Warrants were measured at fair value on a recurring basis. The Company performed routine procedures such as comparing prices obtained from independent sources to ensure that appropriate fair values are recorded. The Company valued the Private Placement Warrants using a binomial lattice model. Inherent in a binomial lattice model ("lattice model") are assumptions related to expected term, volatility, risk-free interest rate, and dividend yield. The expected term of the Warrants was determined to be equivalent to their remaining contractual term and includes consideration of the redemption features that were incorporated into the binomial lattice model. The Company derived the volatility of its Private Placement Warrants based on an implied volatility that was estimated using an iterative process to calibrate a binomial lattice model to the trading price of the Public Warrant. The risk-free interest rate is based on the U.S. Treasury's rates of U.S. Treasury zero-coupon bonds with a maturity similar to the expected term of the Private Placement Warrants. The dividend rate is based on the historical rate, which the Company anticipates remaining at zero.

On November 22, 2021, the Company called the Public Warrants and the Private Placement Warrants for redemption. The Company valued the Private Placement Warrants on the settlement date of exercise, using the fair market value of the Company's Class A common stock multiplied by the number of shares of Class A common stock to be issued per Warrant, which was determined in accordance with the terms of the warrant agreement and based on the redemption date and the volume weighted average price (the "Redemption Fair Market Value") of the Class A common stock during the ten trading days immediately following the date on which the notice of redemption was sent to holders of Warrants. On a cashless basis exercise, the holder was entitled to receive 0.2516 shares of Class A common stock per Warrant. The Public Warrants were valued using the listed trading price on the relevant settlement date of exercise. Any Warrants not exercised by the redemption date, December 22, 2021, were automatically redeemed by the Company at a price of \$0.10 per Warrant. The change in fair value of warrant liabilities was recorded through the date of exercise or redemption within the consolidated statements of operations and comprehensive loss. Since all liability-classified warrants were exercised or redeemed as of March 31, 2022, the associated warrant liabilities were reclassified to additional paid-in capital. As of March 31, 2023 and 2022, no Warrants were outstanding. See Note 13, "Stockholders' Equity," for additional detail.

The change in the fair value of warrant liabilities is as follows:

	Warrant Liabilities	
	(in thousands)	
Balance at March 31, 2021	\$	—
Assumption of Private Placement Warrants and Public Warrants		75,415
Redeemed/exercised warrants		(42,426)
Change in fair value of warrant liabilities		(32,989)
Balance at March 31, 2023 and 2022	\$	—

As of March 31, 2023, the Company had no transfers between levels of the fair value hierarchy of its assets and liabilities measured at fair value. Due to the exercise and redemption of all Public Warrants and Private Placement Warrants during the fiscal year ended March 31, 2022, there were no longer any Level 3 Private Placement Warrant liabilities as of March 31, 2023 and 2022.

Nonrecurring Fair Value Measurements

Identifiable assets and liabilities acquired or assumed are measured separately at their fair values as of the acquisition date. See Note 4, “Acquisition,” for additional detail. Certain of the Company’s assets, including intangible assets and goodwill, are measured at fair value on a nonrecurring basis. During the fiscal year ended March 31, 2023, the Company recorded a \$10.0 million impairment charge to write down the value of an acquired intangible asset to its estimated fair value. See *Intangible Assets, Net* in Note 10, “Balance Sheet Components,” for additional information.

10. Balance Sheet Components

Property and Equipment, Net

Property and equipment, net consisted of the following:

	March 31, 2023		March 31, 2022	
	(in thousands)			
Computer and software	\$	10,376	\$	10,573
Laboratory equipment and software		52,785		51,557
Furniture and office equipment		8,946		8,926
Leasehold improvements		40,964		40,566
Capitalized asset retirement obligations		853		853
Property and equipment, gross		113,924		112,475
Less: accumulated depreciation and amortization		(75,316)		(62,624)
Property and equipment, net	\$	38,608	\$	49,851

Depreciation and amortization expense was \$14.8 million, \$16.1 million and \$18.1 million for the fiscal years ended March 31, 2023, 2022 and 2021, respectively.

Internal-Use Software, Net

Internal-use software, net consisted of the following:

	March 31, 2023		March 31, 2022	
	(in thousands)			
Capitalized internal-use software	\$	25,180	\$	14,804
Less: accumulated amortization		(9,519)		(5,169)
Internal-use software, net	\$	15,661	\$	9,635

During the fiscal years ended March 31, 2023, 2022 and 2021, the Company capitalized \$10.8 million, \$5.7 million and \$4.0 million, respectively, in internal-use software, including \$3.2 million, \$1.2 million and \$0.6 million, respectively, of stock-based compensation expense. For the fiscal years ended March 31, 2023, 2022 and 2021, amortization and impairment of internal-use software was \$4.8 million, \$2.9 million and \$2.0 million, respectively.

Intangible Assets, Net

Intangible assets, net consisted of the following:

March 31, 2023						
Weighted Average Remaining Useful Life (Years)	Gross Carrying Amount	Accumulated Amortization	Cumulative Impairment Charge	Cumulative Currency Translation	Net Carrying Amount	
(in thousands, except years)						
Customer relationships	0.6	\$ 14,900	\$ (10,554)	\$ —	\$ —	\$ 4,346
Partnerships	8.6	23,200	(4,385)	(9,968)	(1,122)	7,725
Trademark	3.6	11,000	(3,117)	—	—	7,883
Developed technology	5.6	24,100	(4,877)	—	—	19,223
Non-compete agreements	3.6	2,800	(793)	—	—	2,007
Patents	5.5	5,500	(1,164)	—	—	4,336
Total intangible assets		<u>\$ 81,500</u>	<u>\$ (24,890)</u>	<u>\$ (9,968)</u>	<u>\$ (1,122)</u>	<u>\$ 45,520</u>

March 31, 2022				
Weighted Average Remaining Useful Life (Years)	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount	
(in thousands, except years)				
Customer relationships	1.6	\$ 14,900	\$ (3,104)	\$ 11,796
Partnerships	6.6	23,200	(1,558)	21,642
Trademark	4.6	11,000	(917)	10,083
Developed technology	6.6	24,100	(1,436)	22,664
Non-compete agreements	4.6	2,800	(233)	2,567
Patents	6.4	5,500	(347)	5,153
Total intangible assets		<u>\$ 81,500</u>	<u>\$ (7,595)</u>	<u>\$ 73,905</u>

Amortization expense for intangible assets was \$17.3 million and \$7.6 million for the fiscal years ended March 31, 2023 and 2022, respectively. There were no intangible assets as of March 31, 2021.

During the third quarter of the fiscal year ended March 31, 2023, due to decreased revenue associated with a delayed product launch and margin forecasts for the U.K. partnership business, the Company performed an interim quantitative impairment test for the U.K. partnership asset group as of December 31, 2022. The fair value of the asset group was calculated using a discounted cash flow and was determined to be lower than its carrying value. As a result, the Company recorded a \$10.0 million impairment charge to write down the value of the partnership intangible asset to its estimated fair value. The charge was recorded within sales and marketing expenses in its Consumer and Research segment in the consolidated statements of operations and comprehensive loss. There was no impairment to intangible assets during the fiscal years ended March 31, 2022 and 2021.

Estimated future amortization expense of the identified intangible assets as of March 31, 2023 was as follows:

	Estimated Amortization (in thousands)
Fiscal years ending March 31,	
2024	\$ 12,265
2025	7,919
2026	7,919
2027	6,770
2028	5,006
Thereafter	5,641
Total estimated future amortization expense	<u>\$ 45,520</u>

Accrued Expense and Other Current Liabilities

Accrued expense and other current liabilities consisted of the following:

	March 31, 2023	March 31, 2022
	(in thousands)	
Accrued payables	\$ 17,030	\$ 20,937
Accrued compensation and benefits	14,737	14,241
Accrued bonus	21,600	657
Accrued clinical expenses	11,707	6,717
Accrued taxes and other	1,356	2,036
Total accrued expenses and other current liabilities	<u>\$ 66,430</u>	<u>\$ 44,588</u>

11. Leases

The Company has entered into operating leases for its corporate offices, lab facilities and storage spaces, with remaining contractual periods ranging from 2.8 years to 8.3 years. In February 2023, the Company entered into an operating lease amendment to extend the lease term of its South San Francisco, California lab facility for two years, which resulted in \$9.3 million of non-cancellable future minimum lease payments and a revised lease term through January 2027. For the Company's facility in Sunnyvale, California, there is an option to extend the lease for a period of seven years. The Company is not reasonably certain that it will exercise this option and therefore it is not included in its ROU assets and lease liabilities as of March 31, 2023. The Company did not have any finance leases for all the periods presented.

The components of lease costs and other information related to leases were as follows:

	Year Ended March 31,		
	2023	2022	2021
	(in thousands, except years and percentages)		
Operating lease cost	\$ 13,650	\$ 13,640	\$ 13,614
Variable lease cost	5,422	6,425	5,809
Total lease cost	<u>\$ 19,072</u>	<u>\$ 20,065</u>	<u>\$ 19,423</u>
Cash paid for amounts included in the measurement of operating lease liabilities, net	\$ (14,941)	\$ (13,490)	\$ (10,334)
ROU assets obtained in exchange for new operating lease obligations	\$ 7,930	\$ —	\$ 12,803
Weighted average remaining lease term (years)	7.5	8.4	9.2
Weighted average discount rate	8%	7%	7%

As of March 31, 2023, the future minimum lease payments included in the measurement of the Company's operating lease liabilities were as follows:

	As of March 31, 2023
	(in thousands)
Fiscal years ending March 31,	
2024	\$ 13,800
2025	15,474
2026	15,946
2027	15,472
2028	11,666
Thereafter	41,430
Total future operating lease payments	<u>113,788</u>
Less: imputed interest	(28,484)
Total operating lease liabilities	<u>\$ 85,304</u>

12. Commitments and Contingencies

Non-cancelable Purchase Obligations

In the normal course of business, the Company enters into agreements containing non-cancelable purchase commitments for goods or services with various parties. As of March 31, 2023, the Company had outstanding non-cancelable purchase obligations with a term of 12 months or longer as follows:

	<u>As of March 31, 2023</u>	
	<u>(in thousands)</u>	
Fiscal years ending March 31,		
2024	\$	21,796
2025		14,719
2026		22
Total	<u>\$</u>	<u>36,537</u>

The amounts purchased under these agreements with non-cancelable purchase obligations were \$29.9 million, \$34.7 million and \$23.6 million for the fiscal years ended March 31, 2023, 2022 and 2021, respectively.

Legal Matters

The Company is subject to certain routine legal and regulatory proceedings, as well as demands and claims that arise in the normal course of business. Certain conditions may exist as of the date the consolidated financial statements are issued, which may result in a loss to the Company, but will only be recorded when one or more future events occur or fail to occur. The Company's management assesses such contingent liabilities, and such assessment inherently involves an exercise of judgment. In assessing loss contingencies related to legal proceedings that are pending against and by the Company or unasserted claims that may result in such proceedings, the Company's management evaluates the perceived merits of any legal proceedings or unasserted claims, as well as the perceived merits of the amount of relief sought or expected to be sought.

If the assessment of a contingency indicates that it is probable that a material loss has been incurred and the amount of the liability can be estimated, then the estimated liability would be accrued in the Company's consolidated financial statements. If the assessment indicates that a potential material loss contingency is not probable but is reasonably possible, or is probable but cannot be estimated, then the nature of the contingent liability, together with an estimate of the range of possible loss if determinable and material, would be disclosed. Loss contingencies considered to be remote by management are generally not disclosed unless they involve guarantees, in which case the guarantee would be disclosed. Legal fees related to potential loss contingencies are expensed as incurred.

On December 10, 2019, Cematix Inc. ("Cematix") filed a lawsuit in the Supreme Court of the State of New York against the Company asserting claims against the Company for breach of contract and the implied covenant of good faith and fair dealing, and tortious interference with contract and prospective economic advantage, alleging damages that, according to the compliant, plaintiff "believed to be in excess of \$100 million." On February 14, 2020, the Company filed its answer, denying all of the material allegations of the complaint and asserting counterclaims against Cematix for breach of contract. Cematix amended its complaint on July 13, 2021, asserting an additional claim against the Company for fraudulent inducement of contract. On July 19, 2021, the Company filed its answer to the amended complaint, denying all of the material allegations and asserting a counterclaim and an additional defense of fraudulent inducement of contract. On October 29, 2021, both parties made motions for partial summary judgment in their favor. Briefing of the parties' respective motions was completed in December 2021. On March 30, 2022, the Company and Cematix agreed to a settlement, pursuant to which the Company made a payment of \$10.0 million net of insurance coverage and all claims and counter-claims were released. The parties filed a Stipulation of Dismissal and Discontinuance with Prejudice on April 22, 2022. On April 25, 2022, the presiding judge entered an order noting that the motions for summary judgment are moot, canceling all future appearances and marking the case as disposed. As a result of the settlement, the Company recorded a net loss on litigation settlement of \$10.0 million in general and administrative expenses on the consolidated statements of operations and comprehensive loss in the fiscal year ended March 31, 2022.

Indemnification

The Company enters into indemnification provisions under agreements with other companies in the ordinary course of business, including, but not limited to, collaborators, landlords, vendors, and contractors. Pursuant to these arrangements, the Company agrees to indemnify, defend, and hold harmless the indemnified party for certain losses suffered or incurred by the indemnified party as a result

of the Company's activities. The maximum potential amount of future payments the Company could be required to make under these agreements is not determinable. The Company has never incurred costs to defend lawsuits or settle claims related to these indemnification provisions. As a result, the Company believes the fair value of these provisions is not material. The Company maintains insurance, including commercial general liability insurance and product liability insurance, to offset certain potential liabilities under these indemnification provisions. In addition, the Company indemnifies its officers, directors, and certain key employees against claims made with respect to matters that arise while they are serving in their respective capacities as such, subject to certain limitations set forth under applicable law, the Company's Bylaws, and applicable indemnification agreements. As of March 31, 2023, the Company did not have any indemnification claims.

13. Stockholders' Equity

Redeemable Convertible Preferred Stock

Immediately prior to the effective time of the Merger, all series of the redeemable convertible preferred stock of 23andMe, Inc. were converted into shares of Class B common stock of 23andMe, Inc. on a one-for-one basis and then converted to the Company's Class B common stock at an exchange ratio of 2.293698169, and the aggregate share amount of 209,181,855 was presented as having been converted as of March 31, 2021. As of March 31, 2023 and 2022, no shares of redeemable convertible preferred stock were outstanding.

Common Stock

Prior to the Merger, 23andMe, Inc. had three classes of authorized common stock: Class A common stock, Class B common stock, and Class C common stock. There were no outstanding shares of 23andMe, Inc. Class C common stock. The rights of the holders of 23andMe, Inc. Class A, Class B, and Class C common stock, respectively, were identical, except with respect to (i) electing members of the Board of Directors, and (ii) voting rights.

On the Closing Date, each share of 23andMe, Inc. Class A common stock was canceled and converted into the Company's Class A common stock at an exchange ratio of 2.293698169, each share of 23andMe, Inc. Class B common stock was canceled and converted into the Company's Class B common stock at an exchange ratio of 2.293698169.

On June 16, 2021, in connection with the Merger, the Company amended and restated its certificate of incorporation to authorize 1,490,000,000 shares of common stock, of which 1,140,000,000 shares are designated Class A common stock and 350,000,000 shares are designated Class B common stock. The rights of the holders of Class A common stock and Class B common stock are identical, except with respect to voting and conversion rights. Holders of Class A common stock are entitled to one vote per share and holders of Class B common stock are entitled to ten votes per share. Each share of Class B common stock is convertible into one share of Class A common stock any time at the option of the holder and is automatically converted into one share of Class A common stock upon transfer (except for certain permitted transfers). Once converted into Class A common stock, the Class B common stock will not be reissued.

Class A Common Stock Warrants

As the accounting acquirer, 23andMe, Inc. is deemed to have assumed 8,113,999 warrants for Class A common stock that were held by the Sponsor at an exercise price of \$11.50 (the "Private Placement Warrants") and 16,951,609 Class A common stock warrants held by VGAC's shareholders at an exercise price of \$11.50 (the "Public Warrants" and, together with the Private Placement Warrants, the "Warrants"). In accordance with the warrant agreement, the Warrants became exercisable on October 6, 2021. Had the Warrants not expired in connection with the Redemption (as defined below), the Warrants would have expired five years after the completion of the Business Combination.

Subsequent to the Merger, the Private Placement Warrants and Public Warrants for shares of Class A common stock met liability classification requirements since the Warrants were required to be settled in cash under a tender offer. In addition, Private Placement Warrants were potentially subject to a different settlement amount as a result of being held by the Sponsor which precludes the Private Placement Warrants from being considered indexed to the entity's own stock. Therefore, the Warrants were classified as liabilities on the consolidated balance sheets.

Public Warrant Terms

The Public Warrants became exercisable into shares of Class A common stock commencing on October 6, 2021.

Redemption of Warrants When the Price per Class A Common Stock Equals or Exceeds \$18.00

Once the Warrants became exercisable, the Company had the right to redeem the outstanding Warrants:

- in whole and not in part;
- at a price of \$0.01 per warrant;
- upon not less than 30 days' prior written notice of redemption to each warrant holder; and
- if, and only if, the last reported sale price of the Class A common stock for any 20 trading days within a 30-trading-day period ending three business days before the Company sends the notice of redemption to the warrant holders (which is referred to as the "Reference Value") equals or exceeds \$18.00 per share (as adjusted for share splits, share capitalizations, reorganizations, recapitalizations, and the like).

Redemption of Warrants When the Price per Class A Common Stock Equals or Exceeds \$10.00

Once the Warrants became exercisable, the Company had the right to redeem the outstanding warrants:

- in whole and not in part;
- at \$0.10 per Warrant upon a minimum of 30 days' prior written notice of redemption, provided that holders will be able to exercise their warrants on a cashless basis prior to redemption and receive that number of shares determined by reference to the table below, based on the redemption date and the "fair market value" of Class A common stock;
- if, and only if, the Reference Value equals or exceeds \$10.00 per share (as adjusted per share sub-divisions, share dividends, reorganizations, reclassifications, recapitalizations, and the like); and
- if the Reference Value is less than \$18.00 per share (as adjusted for share sub-divisions, share capitalizations, reorganizations, recapitalizations, and the like) the Private Placement Warrants must also be concurrently called for redemption on the same terms as the outstanding Public Warrants, as described above.

The numbers in the fee table of the Registration Statement on Form S-1 filed with the SEC by the Company on July 8, 2021 represent the number of shares of Class A common stock that a warrant holder had the right to receive upon exercise in connection with a redemption by the Company pursuant to this redemption feature, based on the "redemption fair market value" of the Class A common stock on the corresponding redemption date (assuming holders elect to exercise their Warrants on a cashless basis prior to redemption), determined based on the volume-weighted average price for the 10 trading days immediately following the date on which the notice of redemption is sent to the holders of Warrants, and the number of months that the corresponding redemption date precedes the expiration date of the Warrants, each as set forth in such fee table. The Company provided its warrant holders with the redemption fair market value no later than one business day after the 10-trading-day period described above ended.

No fractional shares were issued upon exercise of the Warrants. If, upon exercise of the Warrants, a holder would have been entitled to receive a fractional interest in a share, the Company upon exercise rounded down to the nearest whole number the number of shares of Class A common stock that were issued to the warrant holder.

Private Placement Warrants

The Private Placement Warrants (including the shares of Class A common stock issuable upon exercise of the Private Placement Warrants) were not transferable, assignable, or salable until 30 days after the completion of the Business Combination (except, among other limited exceptions, to VGAC's officers and directors and other persons or entities affiliated with the Sponsor) and they were redeemable by the Company, so long as they are held by the Sponsor, members of the Sponsor, or their permitted transferees under certain specified circumstances. The Sponsor or its permitted transferees had the option to exercise the Private Placement Warrants on a cashless basis. Except as described herein, the Private Placement Warrants had terms and provisions identical to those of the Public Warrants. If the Private Placement Warrants had been held by holders other than the Sponsor or its permitted transferees, the Private Placement Warrants would have been redeemable by the Company and exercisable by the holders on the same basis as the Public Warrants.

Except as described under "—Redemption of Warrants When the Price per Class A common stock Equals or Exceeds \$10.00," if holders of the Private Placement Warrants elected to exercise them on a cashless basis, they would have paid the exercise price by surrendering such Warrants for that number of shares of Class A common stock equal to the quotient obtained by dividing (x) the product

of the number of shares of Class A common stock underlying the Warrants, multiplied by the excess of the “Sponsor exercise fair market value” of the Class A common stock over the exercise price of the Warrants by (y) the Sponsor exercise fair market value. For these purposes, the “Sponsor exercise fair market value” means the average reported closing price of the shares of Class A common stock for the 10 trading days ending on the third trading day prior to the date on which the notice of warrant exercise was sent to the warrant agent.

Warrant Redemption

On November 22, 2021, the Company issued a redemption notice to warrant holders announcing that all Public Warrants and Private Placement Warrants outstanding on December 22, 2021 (the “Redemption Date”) would be redeemed for \$0.10 per Warrant, if not earlier exercised on a cash or cashless basis (the “Redemption”). After November 22, 2021 and prior to the Redemption Date, warrant holders were entitled to exercise (i) in cash, at an exercise price of \$11.50 per share of Class A common stock, or (ii) on a cashless basis in which the exercising holder was entitled to receive 0.2516 shares of Class A common stock per Warrant. Any Warrants not exercised by the Redemption Date were automatically redeemed by the Company at a price of \$0.10 per Warrant.

In connection with the Redemption, approximately 23,901,466 Warrants were exercised, representing approximately 95% of the outstanding Warrants, and 6,016,327 shares of Class A common stock were issued upon exercise of such Warrants. Total cash proceeds generated from exercises of the Warrants were immaterial, and the Company made an immaterial redemption payment to the holders of the 1,164,142 redeemed Warrants. Following the Redemption Date, the Public Warrants stopped trading on Nasdaq and were delisted. No Warrants were outstanding as of March 31, 2023 and 2022.

The change in fair value of warrant liabilities totaling \$33.0 million was recorded through the date of exercise or redemption within the consolidated statements of operations and comprehensive loss in fiscal year ended March 31, 2022. Additionally, the fair value of the warrant liability of \$42.4 million was reclassified to additional paid-in capital following the Redemption.

Acquisition

As part of the Lemonaid Acquisition, the Company issued 26,825,241 shares of Class A common stock and an additional 3,747,027 shares of Class A common stock that are subject to vesting. The shares subject to vesting are considered stock-based compensation as outlined in Note 14, “Equity Incentive Plans and Stock-Based Compensation.”

Reserve for Issuance

The Company has the following shares of Class A common stock reserved for future issuance, on an as-if-converted basis:

	March 31, 2023	March 31, 2022
Outstanding stock options	68,050,752	73,609,565
Outstanding restricted stock units	26,562,566	10,676,378
Remaining shares available for future issuance under 2021 Incentive Equity Plan	55,922,182	48,895,572
Remaining shares available for future issuance under Employee Stock Purchase Plan	16,349,302	11,420,000
Total shares of common stock reserved	<u>166,884,802</u>	<u>144,601,515</u>

Preferred Stock

Pursuant to the Company’s amended and restated certificate of incorporation, the Company is authorized to issue 10,000,000 shares of preferred stock, each with a par value of \$0.0001 per share. The Company’s Board of Directors has the authority to issue shares of the preferred stock in one or more series and to determine the preferences, privileges, and restrictions, including voting rights, of those shares. As of March 31, 2023 and 2022, no shares of preferred stock were issued and outstanding.

At-the-Market (“ATM”) Offering

On February 6, 2023, the Company filed a shelf Registration Statement on Form S-3 with the SEC, relating to the sale, from time to time, in one or more transactions, of up to \$500 million of common stock, preferred stock, debt securities, warrants, and units (the “Shelf Registration Statement”). Also, on February 6, 2023, the Company entered into a Sales Agreement (the “Sales Agreement”) with Cowen and Company, LLC (“Cowen” or the “Agent”), pursuant to which the Company may sell through the Agent, as the Company’s sales agent, from time to time, at the Company’s option, up to \$150 million in aggregate principal amount of an

indeterminate amount of shares (the “ATM Shares”) of the Company’s Class A common stock. Subject to the terms of the Sales Agreement, the Agent will use reasonable efforts to sell the ATM Shares from time to time, based upon the Company’s instructions (including any price, time, or size limits or other customary parameters or conditions the Company may impose), by methods deemed to be an “at the market offering” as defined in Rule 415(a)(4) promulgated under the Securities Act of 1933, as amended, and pursuant to, and only upon the effectiveness of, the Shelf Registration Statement. The Company will pay the Agent a commission of 3.0% of the gross proceeds from the sales of the ATM Shares, if any. The Company has also agreed to provide the Agent with customary indemnification and contribution rights. The offering of the ATM Shares will terminate upon the earliest of (a) the sale of the maximum number or amount of the ATM Shares permitted to be sold under the Sales Agreement and (b) the termination of the Sales Agreement by the parties thereto. While the Company cannot provide any assurances that it will sell any ATM Shares pursuant to the Sales Agreement, the Company expects to use the net proceeds from the sale of securities under the Sales Agreement, if any, for general corporate purposes, including working capital requirements and operating expenses; the Company, however, has not allocated the net proceeds for specific purposes. As of March 31, 2023, the Company has not made any sales under the Sales Agreement.

14. Equity Incentive Plans and Stock-Based Compensation

Incentive Equity Plans

In 2006, 23andMe, Inc. established its 2006 Equity Incentive Plan, as amended (the “2006 Plan”), which provided for the grant of stock options and restricted stock to its employees, directors, officers, and consultants. The 2006 Plan allowed for time-based or performance-based vesting for the awards. The 2006 Plan was amended and restated at various times since its adoption.

On June 10, 2021, the shareholders of VGAC approved the 23andMe Holding Co. 2021 Incentive Equity Plan (the “2021 Plan”) and reserved 136,000,000 authorized shares of the Company’s Class A common stock for issuance thereunder. In addition, all equity awards of 23andMe, Inc. that were issued under the 2006 Plan were converted into comparable equity awards that are settled or exercisable for shares of the Company’s Class A common stock. As a result, each 23andMe, Inc. stock option was converted into an option to purchase shares of the Company’s Class A common stock based on an exchange ratio of 2.293698169. As of the effective date of the 2021 Plan, no further stock awards have been or will be granted under the 2006 Plan.

The 2021 Plan authorizes the issuance or transfer of up to 136,000,000 shares of Class A common stock. The number of shares of Class A common stock reserved for issuance under the 2021 Plan will automatically increase on January 1 of each calendar year, starting in 2022, in an amount equal to (i) 22,839,019 shares of Class A common stock, (ii) 3.0% of the aggregate number of shares of Class A common stock and Class B common stock outstanding, or (iii) a lesser number of shares determined by the Company’s Board of Directors prior to the applicable January 1. In November 2021, in connection with the Lemonaid Acquisition, the Company registered an additional 2,990,386 shares of Class A common stock issuable under the 2021 Plan, which represent shares of Class A common stock issuable in exchange for outstanding options initially granted under Lemonaid Health’s 2014 Equity Incentive Plan, as amended. As of March 31, 2023, 55,922,182 shares of the Company’s Class A common stock remained available for future issuance under the 2021 Plan.

Options under the 2021 Plan have a contractual life of up to ten years. The exercise price of a stock option shall not be less than 100% of the estimated fair value of the shares on the date of grant, as determined by the Board of Directors. For Incentive Stock Options (“ISO”) as defined in the Internal Revenue Code of 1986, as amended (the “Code”), the exercise price of an ISO granted to a 10% stockholder shall not be less than 110% of the estimated fair value of the underlying stock on the date of grant as determined by the Board of Directors. The Company’s options generally vest over four years. Under the 2021 Plan, stock option awards entitle the holder to receive one share of Class A common stock for every option exercised.

In connection with the Merger, all of the 23andMe, Inc. option holders received an equivalent award at an exchange ratio of 2.293698169 that vest in accordance with the original terms of the award. The Company determined this to be a Type I modification but did not record any incremental stock-based compensation expense since the fair value of the modified awards immediately after the modification was not greater than the fair value of the original awards immediately before the modification.

Under the 2006 Plan and 2021 Plan, RSUs may be granted to employees, non-employee directors and consultants. The RSUs vest ratably over a period ranging from one to four years and are subject to the participant’s continuing service to the Company over that period. Until vested, RSUs do not have the voting and dividend participation rights of common stock and the shares underlying the awards are not considered issued and outstanding.

In February 2022, the Compensation Committee of the Company’s Board of Directors adopted a RSU conversion and deferral program for non-employee directors. The purpose of the program is to provide non-employee directors with the option to convert all or a portion of their cash compensation into a RSU award under the 2021 Plan and the opportunity to defer settlement of all or a portion of their RSU awards. As of March 31, 2023, four non-employee directors had elected to convert all of their cash compensation into RSU awards, and two non-employee directors had elected to defer settlement of their RSU awards under the program.

On June 9, 2022, the Compensation Committee of the Company's Board of Directors adopted an annual incentive plan (the "2022 AIP"), pursuant to which, beginning in fiscal year 2023, which began on April 1, 2022, employees and certain service providers of 23andMe, Inc. and its affiliates will be eligible to receive annual incentive bonuses in the form of cash or RSUs issued by the Company under the 2021 Plan, based upon the Company's achievement of certain pre-established financial, operational, and strategic performance metrics. The fiscal 2023 annual incentive bonuses will be paid in the form of RSUs (collectively, the "2022 AIP RSUs") and the number of RSUs will be determined by dividing the dollar amount of the 2022 AIP RSUs by the trailing average closing price of the Company's Class A common stock for the 30 days preceding the date of payment (or such other number of days determined by the Compensation Committee). The Company accounts for the 2022 AIP RSUs as liability awards and adjusts the liability and corresponding expenses at the end of each quarter until the date of settlement, considering the probability that the performance conditions will be satisfied. The Company recorded stock-based compensation expense related to the 2022 AIP RSUs of \$18.9 million for the fiscal years ended March 31, 2023. As of March 31, 2023, the liability of the 2022 AIP RSUs was \$18.9 million, which was included in other current liabilities on the consolidated balance sheet.

Stock Option Activity

Stock option activity and activity regarding shares available for grant under the 2021 Plan are as follows:

	Options Outstanding			
	Outstanding Stock Options	Weighted-Average Exercise Price	Weighted-Average Remaining Contractual Life (Years)	Aggregate Intrinsic Value
	(in thousands, except share, years, and per share data)			
Balance as of March 31, 2022	73,609,565	\$ 4.21	6.9	\$ 35,979
Granted	4,866,230	\$ 3.50		
Exercised	(2,748,796)	\$ 1.53		
Canceled/forfeited/expired	(7,676,247)	\$ 4.75		
Balance as of March 31, 2023	68,050,752	\$ 4.20	6.0	\$ 10,621
Vested and exercisable as of March 31, 2023	48,034,690	\$ 4.14	5.0	\$ 7,743

The weighted average grant date fair value per share of options granted for the fiscal years ended March 31, 2023, 2022 and 2021 was \$2.42, \$4.44 and \$3.02, respectively. The total intrinsic value of vested options exercised for the fiscal years ended March 31, 2023, 2022 and 2021 was \$4.6 million, \$25.6 million and \$47.6 million, respectively. As of March 31, 2023, unrecognized stock-based compensation cost related to unvested stock options was \$65.9 million, which is expected to be recognized over a weighted-average period of 2.5 years. Due to a valuation allowance on deferred tax assets, the Company did not recognize any tax benefit from stock option exercises for the fiscal years ended March 31, 2023, 2022 and 2021.

The Company estimated the fair value of options granted using the Black-Scholes option-pricing model. The fair value of stock options is being amortized on a straight-line basis over the requisite service period of the awards.

The weighted average Black-Scholes assumptions used to value stock options at the grant dates are as follows:

	Year Ended March 31,					
	2023		2022		2021	
	Min	Max	Min	Max	Min	Max
Expected term (years)	6.0	6.8	3.3	6.1	4.0	6.1
Expected volatility	76%	81%	72%	75%	61%	68%
Risk-free interest rate	2.8%	4.2%	1.0%	2.5%	0.2%	0.5%
Expected dividend yield	—	—	—	—	—	—

Restricted Stock Units

The following table summarizes the RSU activity under the equity incentive plans and related information:

	Unvested RSUs		Weighted-Average Grant Date Fair Value Per Share
Balance as of March 31, 2022	10,676,378	\$	9.70
Granted	26,940,560	\$	3.28
Vested	(7,062,152)	\$	6.23
Canceled/forfeited	(3,992,220)	\$	5.53
Balance as of March 31, 2023	26,562,566	\$	4.73

As of March 31, 2023, unrecognized stock-based compensation expense related to outstanding unvested RSUs was \$116.8 million, which is expected to be recognized over a weighted-average period of 3.0 years.

Stock Subject to Vesting

In November 2021, in connection with the Lemonaid Acquisition, the Company granted 3,747,027 shares of Class A common stock with an aggregate grant date fair value of \$43.9 million to two recipients, each of whom was a former stockholder and officer of Lemonaid and each of whom, following the closing of the Lemonaid Acquisition, joined the Company's management team. The shares vest over a four-year period in quarterly installments beginning on February 1, 2022, subject to the respective recipient's continued employment with the Company. In connection with the Lemonaid Acquisition, each of these recipients entered into a relinquishment agreement that provides that during the four-year period that commenced on November 1, 2021 (the "Protection Period"), the Company will not (i) terminate the recipient employment without cause, (ii) materially reduce the recipient's base salary or the benefits to which similarly-situated executive employees of the Company or the Company's subsidiaries are entitled, other than a broad-based reduction to the same extent that applies to such similarly-situated executive employees, or (iii) relocate the recipient's principal place of employment to a location outside of a 50-mile radius of their current principal place of employment (each a "Relinquishment Triggering Event"). If any such Relinquishment Triggering Event occurs during the Protection Period or in the event of recipient's death or disability, then the unvested portion(s) of these awards will immediately vest. The Company recognized stock-based compensation expense related to these awards of \$11.0 million and \$4.5 million for the fiscal years ended March 31, 2023 and 2022, respectively, within general and administrative expenses. Unrecognized stock-based compensation expense of \$28.4 million is expected to be recognized over a weighted average period of 2.6 years.

Employee Stock Purchase Plan

On June 10, 2021, the shareholders of VGAC approved the Company's ESPP. A total of 11,420,000 shares of the Company's Class A common stock were initially reserved for issuance under the ESPP. Pursuant to the terms of the ESPP, the number of shares of the Company's Class A common stock reserved for issuance will automatically increase on January 1 of each calendar year, beginning on January 1, 2023, by the lesser of (i) an amount equal to one percent (1.0%) of the total number of shares of Class A and Class B common stock outstanding as of the last day of the immediately preceding December 31st, (ii) 5,000,000 shares, or (iii) a lesser number of shares as determined by the Board of Directors in its discretion. As of March 31, 2023, 2,642,313 shares of the Company's Class A common stock have been issued and 16,349,302 shares remained available for future issuance under the ESPP.

The ESPP provides for concurrent 12-month offerings with successive six-month purchase intervals commencing on March 1 and September 1 of each year and purchase dates occurring on the last day of each such purchase interval (i.e., August 31 and February 28). The ESPP contains a rollover provision whereby if the price of the Company's Class A common stock on the first day of a new offering period is less than the price on the first day of any preceding offering period, all participants in a preceding offering period with a higher first day price will be automatically withdrawn from such preceding offering period and re-enrolled in the new offering period. The rollover feature, when triggered, will be accounted for as a modification to the preceding offering period, resulting in incremental expense to be recognized over the new offering period.

The weighted average grant date fair value of ESPP award per share for the fiscal years ended March 31, 2023 and 2022 was \$1.35 and \$1.84, respectively. The Company uses the following weighted-average assumptions in the Black-Scholes model to calculate the estimated fair value of the ESPP awards:

	Year Ended March 31,					
	2023			2022		
	Min	Max		Min	Max	
Expected term (years)	0.5	1.0		0.5	1.0	
Expected volatility	78 %	109 %		77 %	86 %	
Risk-free interest rate	3.3 %	5.2 %		0.6 %	0.9 %	
Expected dividend yield	—	—		—	—	

Stock-Based Compensation

Total stock-based compensation expense, including stock-based compensation expense related to awards classified as liabilities, was included in costs and expenses as follows:

	Year Ended March 31,		
	2023	2022	2021
	(in thousands)		
Cost of revenue	\$ 10,874	\$ 4,029	\$ 858
Research and development	48,837	26,540	21,771
Sales and marketing	8,635	5,122	4,081
General and administrative	47,671	22,242	59,986
Total stock-based compensation expense	\$ 116,017	\$ 57,933	\$ 86,696

Early Exercise of Common Stock Options

The 2006 Plan allows for option awards that include the right to early exercise options for shares of common stock. For the options granted to the CEO (who is a related party), the Company's Board of Directors authorized the CEO to exercise unvested options to purchase shares of common stock. Under the terms of the 2006 Plan, any shares issued as a result of the CEO's early exercise are subject to repurchase, at the option of the Company, at the original issuance price in the event of the CEO's termination of service as a Service Provider (as defined in the 2006 Plan) for any reason, until the options would have been fully vested. In August 2020, the CEO was granted options for 6,881,095 shares, which were eligible for early exercise. In September 2020, the CEO exercised all 6,881,095 unvested stock options. The cash proceeds received for such exercise were \$34.7 million. In February 2021, the CEO exercised an option for 11,029,071 shares of Class B common stock, including both vested and unvested shares, for a cash purchase price of \$32.6 million. During the fiscal year ended March 31, 2021, the CEO exercised a total of 11,108,906 unvested stock options early for a total of \$47.2 million in cash proceeds. There were no early exercises during the fiscal years ended March 31, 2023 and 2022.

In February 2021, the Board of Directors modified option awards granted to the CEO, which accelerated the vesting of all 15,621,041 unvested common shares previously purchased by the CEO. Stock-based compensation expense of \$40.4 million was recorded to General and Administrative expenses which represented the recognition of the remaining unrecognized compensation expense associated with these grants as of the date of modification. As a result of the Board-approved accelerated vesting of these early exercised unvested shares, there were no early exercise liabilities as of March 31, 2023 and 2022.

As of March 31, 2023 and 2022, there was no common stock subject to repurchase.

15. Net Loss Per Share Attributable to Common Stockholders

Prior to the Merger, the net loss attributable to common stockholders was allocated based on the contractual participation rights of the 23andMe, Inc. Class A and 23andMe, Inc. Class B common stock. As the liquidation and dividend rights of 23andMe, Inc. Class A and 23andMe, Inc. Class B common stock was identical, the net loss attributable to common stockholders was allocated on a proportionate basis, and the resulting net loss per share was identical for 23andMe, Inc. Class A and 23andMe, Inc. Class B common stock under the two-class method. Earnings per share calculations for all periods prior to the Merger have been retrospectively restated to the equivalent number of shares reflecting the exchange ratio established in the reverse capitalization. Shares issued on early exercise, or issued but subject to vesting, are not included within weighted average shares outstanding for the period.

Subsequent to the Merger, the Company continues to have two classes of common stock: Class A and Class B common stock. Similar to the previous structure, the rights are identical, including liquidation and dividend rights, except the Company's Class B common stock has additional voting rights and is convertible at any time at the option of the holder into Class A common stock, and is automatically converted into Class A common stock upon transfer (except for certain permitted transfers). The net loss attributable to common stockholders is allocated on a proportionate basis, and the resulting net loss per share is identical for Class A and Class B common stock under the two-class method.

No dividends were declared or paid for the fiscal years ended March 31, 2023, 2022 and 2021.

The Company's redeemable convertible preferred stock, stock options, early exercised stock options, RSUs, and restricted stock awards subject to vesting are considered to be potential common stock equivalents but have been excluded from the calculation of diluted net loss per share attributable to common stockholders as their effect is anti-dilutive.

Net loss attributable to common stockholders was equivalent to net loss for all periods presented.

The following table sets forth the computation of basic and diluted net loss per share attributable to common stockholders for the periods presented:

	Year Ended March 31,					
	2023		2022		2021	
	Class A	Class B	Class A	Class B	Class A	Class B
	(in thousands, except share and per share data)					
Numerator:						
Net loss attributable to common stockholders	\$ (185,112)	\$ (126,544)	\$ (68,620)	\$ (148,870)	\$ (37,070)	\$ (146,549)
Denominator:						
Weighted-average shares used in computing net loss per share attributable to common stockholders, basic and diluted	268,177,185	183,327,192	114,064,921	247,463,198	20,121,419	79,539,367
Net loss per share attributable to common stockholders:						
Net loss per share attributable to common stockholders, basic and diluted	\$ (0.69)	\$ (0.69)	\$ (0.60)	\$ (0.60)	\$ (1.84)	\$ (1.84)

The potential shares of Class A common stock that were excluded from the computation of diluted net loss per share attributable to common stockholders for the periods presented because including them would have been anti-dilutive were as follows (there were none for Class B common stock for the fiscal years ended March 31, 2023 and 2022):

	As of March 31,			
	2023	2022	2021	
	Class A	Class A	Class A	Class B
Conversion of redeemable convertible preferred stock	—	—	—	209,181,855
Outstanding stock options	68,050,752	73,609,565	18,116,302	49,261,103
Restricted stock units	26,562,566	10,676,378	—	—
Shares subject to vesting	2,576,082	3,512,839	—	—
2022 AIP RSUs	8,460,836	—	—	—
ESPP	2,937,194	2,239,756	—	—
Total	108,587,430	90,038,538	18,116,302	258,442,958

16. Retirement Benefit Plans

The Company has established a 401(k) retirement plan that allows participating employees in the U.S. to contribute as defined by the plan and is subject to limitations under Section 401(k) of the Internal Revenue Code of 1986, as amended. The Company matches the greater of 100% of the first 2% or 100% of the first \$2,300 (subject to annual compensation and contribution limits) of employee contributions. The Company recognized matching contributions cost of \$2.6 million, \$1.7 million and \$1.5 million for the fiscal years ended March 31, 2023, 2022 and 2021, respectively.

17. Income Taxes

The components of the Company's loss before income taxes are summarized as follows:

	Year Ended March 31,		
	2023	2022	2021
	(in thousands)		
Domestic	\$ (292,730)	\$ (221,212)	\$ (183,619)
Foreign	(21,698)	242	-
Loss before income taxes	\$ (314,428)	\$ (220,970)	\$ (183,619)

There has historically been no federal or state provision for income taxes because the Company has historically incurred operating losses and maintains a full valuation allowance against its net deferred tax assets. During the fiscal year ended March 31, 2023, the Company recognized a deferred foreign income tax benefit of \$2.8 million related to the reversal of a deferred tax liability related to U.K. intangibles acquired in the Lemonaid Acquisition. During the fiscal year ended March 31, 2022, the Company recognized a deferred income tax benefit of \$3.5 million related to the partial release of the valuation allowance for deferred tax assets due to the recognition of deferred tax liabilities in connection with the Lemonaid Acquisition. For the fiscal year ended March 31, 2021, the Company recognized no provision for income taxes.

A reconciliation of income tax (benefit) computed at the statutory federal tax rate to the effective income tax rate is summarized as follows:

	Year Ended March 31,		
	2023	2022	2021
Statutory federal tax expense rate	21 %	21 %	21 %
Non-deductible stock-based compensation	(4 %)	(3 %)	(7 %)
Fair Market Value adjustment on Warrants	0 %	3 %	0 %
Change in valuation allowance related to acquisition	0 %	2 %	0 %
Change in valuation allowance	(16 %)	(20 %)	(14 %)
Other	0 %	(2 %)	0 %
Effective tax rate	1 %	2 %	(0 %)

Deferred income taxes result from differences in the recognition of revenue and expenses for tax and financial reporting purposes, as well as operating loss and tax credit carryforwards. The components of the Company's deferred tax assets and liabilities as of March 31, 2023 and 2022 were as follows:

	March 31,	
	2023	2022
	(in thousands)	
Deferred tax assets:		
Net operating loss carryforwards	\$ 262,295	\$ 248,856
Capitalized research and development expenses	33,709	-
Accruals and reserves	3,865	3,685
Stock-based compensation	18,065	10,000
Deferred revenue	11,498	6,865
Operating lease liabilities	21,474	20,590
Other	332	19
Gross deferred tax assets	351,238	290,015
Valuation allowance	(322,104)	(261,795)
Total deferred tax assets	29,134	28,220
Deferred tax liabilities:		
Prepaid expenses	(892)	(1,235)
Intangibles	(13,689)	(15,709)
Operating lease right-of-use assets	(14,117)	(13,233)
Property and equipment	(436)	(1,138)
Gross deferred tax liabilities	(29,134)	(31,315)
Net deferred taxes	\$ —	\$ (3,095)

The Company maintains a full valuation allowance on the remaining net deferred tax assets of the U.S. and U.K. entities as it is more likely than not that the Company will not realize the deferred tax assets. Utilization of net operating loss carryforwards may be subject to future annual limitations provided by Section 382 of the Code and similar state provisions.

As of March 31, 2023, the Company had \$1.0 billion of federal, \$689.0 million of state, and \$9.6 million of foreign net operating loss carryforwards available to reduce future taxable income, which will begin to expire in 2026 for federal and state tax purposes. Included in the \$1.0 billion carryover losses is \$654.7 million of net operating losses with an indefinite life. The Company does not have any federal and state research and development tax credit carryforwards. The change in the valuation allowance in the current year was an increase of \$60.3 million primarily related to the increase of current year losses.

The Tax Reform Act of 1986 and similar California legislation impose substantial limitations on the utilization of net operating loss and tax credit carryforwards, if there is a change in ownership as provided by Section 382 of the Internal Revenue Code and similar state provisions. Such a limitation could result in the expiration of the net operating loss carryforwards and tax credits before utilization. The Company performed a preliminary study for the period through March 31, 2023, and no tax attributes are anticipated to expire due to a Section 382 limitation. The Company's ability to use net operating loss carryforwards to reduce future taxable income and liabilities may be subject to annual limitations as a result of ownership changes in subsequent years.

Significant management judgment is required in determining the provision for income taxes and, in particular, any valuation allowance recorded against the Company's deferred tax assets. The Company determined that, due to the Company's cumulative tax loss history and the difficulty in forecasting the timing of future revenue, it was necessary to maintain a valuation allowance to the full amount of the deferred tax asset. The Company determined that it was not more-likely-than-not that the deferred tax asset would be utilized.

The Company had no unrecognized tax benefits for the fiscal years ended March 31, 2023 and 2022. A reconciliation of the beginning and ending balance of unrecognized tax benefits for the fiscal year ended March 31, 2021 is summarized as follows:

	<u>Unrecognized Tax Benefits</u>	
	(in thousands)	
Balance as of March 31, 2020	\$	299
Decreases in unrecognized tax benefits related to prior year tax positions		(299)
Increases in unrecognized tax benefits related to current year tax positions		—
Balance as of March 31, 2021	\$	—

The Company's policy is to recognize interest and penalties accrued on any unrecognized tax benefits as a component of income tax expense. During the fiscal years ended March 31, 2023, 2022, and 2021, the Company recognized no interest and penalties associated with the unrecognized tax benefits. There are no tax positions for which it is reasonably possible that the total amount of unrecognized tax benefits will significantly increase or decrease within 12 months of the reporting date. If recognized, there would be no impact on the Company's effective tax rate due to its valuation allowance.

The Company files income tax returns in the U.S. federal jurisdiction, various states, and the U.K. The Company is not currently under examination by income tax authorities in federal, state, or other jurisdictions. All tax returns will remain open for examination by the federal and state authorities for three and four years, respectively, from the date of utilization of any net operating loss or credits.

18. Related Party Transactions

As described in Note 6, "Collaborations," in July 2018, the Company and GSK entered into the GSK Agreement, and there were transactions with GSK during the fiscal years ended March 31, 2023, 2022 and 2021. At the time the GSK Agreement was entered into, GSK also purchased 17,291,066 shares of Series F-1 redeemable convertible preferred stock of 23andMe, Inc. These shares were converted into a like number of shares of 23andMe, Inc. Class B common stock immediately prior to the Merger and were exchanged pursuant to the Share Conversion Ratio into shares of the Company's Class B common stock in the Business Combination. GSK had a 20.1% and 16.3% voting interest in the Company as of March 31, 2023 and 2022, respectively.

As described in Note 3, "Recapitalization," in February 2021, concurrently with the execution of the Merger Agreement, VGAC entered into subscription agreements with certain investors to which such investors collectively subscribed for an aggregate of 25,000,000 shares of the Company's Class A common stock at \$10.00 per share for aggregate gross proceeds of \$250.0 million. The Anne Wojcicki Foundation, which subscribed for 2,500,000 shares of the Company's Class A common stock, is affiliated with the Company's CEO and therefore a related party.

In September 2020 and February 2021, the CEO early exercised unvested options to purchase shares of common stock. In February 2021, the Board of Directors accelerated the vesting of all 15,621,041 unvested shares previously purchased by the CEO, which resulted in stock-based compensation expense of \$40.4 million for fiscal year 2021 related to recognition of the remaining compensation expense associated with these grants. For further information, see Note 14, “*Equity Incentive Plans and Stock-based Compensation*”.

Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

None.

Item 9A. Controls and Procedures

Disclosure Controls and Procedures

Disclosure controls and procedures are controls and other procedures that are designed to ensure that information required to be disclosed in our reports filed or submitted under the Exchange Act is recorded, processed, summarized, and reported within the time periods specified in the SEC’s rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed in company reports filed or submitted under the Exchange Act is accumulated and communicated to management, including our Chief Executive Officer and Chief Financial Officer, to allow timely decisions regarding required disclosure.

We do not expect that our disclosure controls and procedures will prevent all errors and all instances of fraud. Disclosure controls and procedures, no matter how well conceived and operated, can provide only reasonable assurance of achieving the desired control objectives. Further, the design of disclosure controls and procedures must reflect the fact that there are resource constraints, and the benefits must be considered relative to their costs. The design of disclosure controls and procedures also is based partly on certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions.

As of March 31, 2023, as required by Rules 13a-15 and 15d-15 under the Exchange Act, our Chief Executive Officer and Chief Financial Officer carried out an evaluation of the effectiveness of the design and operation of our disclosure controls and procedures. Based upon their evaluation, our Chief Executive Officer and Chief Financial Officer concluded that our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act) were effective at the reasonable assurance level as of such date and that the consolidated financial statements included in this Form 10-K present fairly, in all material respects, the Company’s financial position, results of operations, and cash flows for the periods disclosed in accordance with GAAP.

Management’s Report on Internal Controls over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as defined in Rule 13a-15(f) and 15d-15(f) of the Exchange Act. Our internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with U.S. GAAP. Internal control over financial reporting includes those policies and procedures that: (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the Company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with U.S. GAAP, and that receipts and expenditures of the Company are being made only in accordance with authorizations of management and directors of the Company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the Company’s assets that could have a material effect on the Consolidated Financial Statements.

Because of its inherent limitations, there is a risk that internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Management assessed the effectiveness of the Company’s internal control over financial reporting as of March 31, 2023, based on the framework set forth by the Committee of Sponsoring Organizations of the Treadway Commission in Internal Control - Integrated Framework as published in 2013. Based on that assessment, management concluded that, as of March 31, 2023, the Company’s internal control over financial reporting was effective.

The effectiveness of our internal control over financial reporting as of March 31, 2023 has been audited by KPMG LLP, an independent registered public accounting firm, as stated in its audit report, which is included under Item 8 of this Form 10-K.

Changes in Internal Control over Financial Reporting

We previously reported a material weakness related to a lack of sufficient resources in our finance function through March 31, 2022. This material weakness has been remediated as of March 31, 2023.

Other than described above, there has been no material change in our internal control over financial reporting, as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

Item 9B. Other Information

None.

Item 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections

Not applicable.

PART III

Information required by Items 10, 11, 12, 13, and 14 of Part III is omitted from this Form 10-K and will be filed in our definitive proxy statement to be filed with the SEC with respect to our 2023 Annual Meeting of Stockholders (the “2023 Proxy Statement”) or by an amendment to this Form 10-K not later than 120 days after the end of the fiscal year covered by this Form 10-K.

Item 10. Directors, Executive Officers and Corporate Governance

To the extent applicable, the information called for by this Item 10 will be set forth in the 2023 Proxy Statement under the following captions and is incorporated herein by reference: “Proposal 1 – Election of Directors,” “Executive Officers,” and “Corporate Governance.”

Item 11. Executive Compensation

To the extent applicable, the information required by this Item 11 will be set forth in the 2023 Proxy Statement under the following captions and is incorporated herein by reference: “Director Compensation,” “Compensation Discussion and Analysis” and the related tabular disclosure, “Compensation Committee Report,” “Compensation Risk Assessment,” “Policies Prohibiting Hedging, Pledging, and Speculative or Short-Term Trading,” and “Compensation Committee Interlocks and Insider Participation.”

Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

To the extent applicable, the information required by this Item 12 will be set forth in the 2023 Proxy Statement under the following captions and is incorporated herein by reference: “Security Ownership of Certain Beneficial Owners and Management” and “Equity Compensation Plan Information.”

Item 13. Certain Relationships and Related Transactions, and Director Independence

To the extent applicable, the information required by this Item 13 will be set forth in the 2023 Proxy Statement under the following captions and is incorporated herein by reference: “Corporate Governance – Related Person Transactions” and “Corporate Governance –Board Independence.”

Item 14. Principal Accounting Fees and Services

Our independent registered public accounting firm is KPMG LLP, Santa Clara, California (Auditor ID: 185).

To the extent applicable, the information required by this Item 14 will be set forth in the 2023 Proxy Statement under the following caption and is incorporated herein by reference: “Audit Fees and Services.”

PART IV**Item 15. Exhibits, Financial Statement Schedules**

See “*Index to Consolidated Financial Statements*” in Part II, Item 8 of this Form 10-K. Financial statement schedules have been omitted because they are not required or are not applicable or because the information required in those schedules either is not material or is included in the consolidated financial statements or the accompanying notes.

The following exhibits are filed as part of, or incorporated by reference into, this report (unless otherwise indicated, the file number with respect to each filed document is 001-39587):

Exhibit Index

Exhibit Number	Description
2.1†	Agreement and Plan of Merger, dated as of February 4, 2021, by and among VG Acquisition Corp., Chrome Merger Sub, Inc., and 23andMe, Inc. (incorporated by reference to Exhibit 2.1 to the Current Report on Form 8-K filed with the SEC on February 4, 2021).
2.2	First Amendment to the Merger Agreement, dated as of February 13, 2021, by and among VG Acquisition Corp., Chrome Merger Sub, Inc., and 23andMe, Inc. (incorporated by reference to Exhibit 2.2 to the Registration Statement on Form S-4 (File No. 333-254772), filed with the SEC on May 13, 2021).
2.3	Second Amendment to the Merger Agreement, dated as of March 25, 2021, by and among VG Acquisition Corp., Chrome Merger Sub, Inc., and 23andMe, Inc. (incorporated by reference to Exhibit 2.3 to the Registration Statement on Form S-4/A (File No. 333-254772), filed with the SEC on May 13, 2021).
2.4	Agreement and Plan of Merger and Reorganization, dated as of October 21, 2021, by and among 23andMe Holding Co., Life Merger Sub One, Inc., Life Merger Sub Two, Inc., Lemonaid Health, Inc., and Fortis Advisors LLC (incorporated by reference to Exhibit 2.1 to the Current Report on Form 8-K, filed with the SEC on October 22, 2021).
3.1	Certificate of Incorporation of 23andMe Holding Co. (incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K/A filed with the SEC on June 21, 2021).
3.2	Second Amended and Restated Bylaws of 23andMe Holding Co. (incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K filed with the SEC on December 9, 2022).
4.1	Description of 23andMe Holding Co.’s Securities Registered Pursuant to Section 12 of the Securities Exchange Act of 1934, as amended (incorporated by reference to Exhibit 4.1 to the Annual Report on Form 10-K filed with the SEC on May 27, 2022).
4.2	Specimen Warrant Certificate (incorporated by reference to Exhibit 4.3 to the Registration Statement on Form S-1 (File No. 333-248844), filed with the SEC on September 16, 2020).
4.3	Warrant Agreement, dated as of October 1, 2020, between VG Acquisition Corp. and Continental Stock Transfer & Trust Company (incorporated by reference to Exhibit 4.1 to the Current Report on Form 8-K, filed with the SEC on October 6, 2020).
4.4	Certificate of Corporate Domestication of VG Acquisition Corp. (incorporated by reference to Exhibit 4.3 to the Current Report on Form 8-K filed with the SEC on June 21, 2021).
10.1	Sponsor Letter Agreement, dated as of February 4, 2021, by and among 23andMe, Inc., VG Acquisition Sponsor LLC, VG Acquisition Corp., Credit Suisse Securities (USA) LLC as representative of the several Underwriters named therein, the Insiders (as defined therein) and the Holders (as defined therein) (incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed with the SEC on February 4, 2021).
10.2	Form of Subscription Agreement (incorporated by reference to Exhibit 10.2 to the Current Report on Form 8-K filed with the SEC on February 4, 2021).
10.3†	Form of Support Agreement (incorporated by reference to Exhibit 10.3 to the Current Report on Form 8-K filed with the SEC on February 4, 2021).
10.4	Amended and Restated Registration Rights Agreement, dated as of June 16, 2021, by and among 23andMe Holding Co., VG Acquisition Sponsor LLC, and certain other initial stockholders (incorporated by reference to Exhibit 10.4 to the Current Report on Form 8-K filed with the SEC on June 21, 2021).
10.5+	23andMe Holding Co. 2021 Incentive Equity Plan (incorporated by reference to Exhibit 10.5 to the Current Report on Form 8-K filed with the SEC on June 21, 2021).
10.6+	23andMe Holding Co. 2021 Employee Stock Purchase Plan (incorporated by reference to Exhibit 10.6 to the Current Report on Form 8-K filed with the SEC on June 21, 2021).

10.7+	Form of Indemnification Agreement (incorporated by reference to Exhibit 10.6 to the Registration Statement on Form S-4/A, filed with the SEC on May 13, 2021).
10.8+	Offer Letter, dated as of February 16, 2014, by and between 23andMe, Inc. and Kathy Hibbs (incorporated by reference to Exhibit 10.8 to the Registration Statement on Form S-4/A (File No. 333-254772), filed with the SEC on May 13, 2021).
10.9+	Offer Letter, dated as of February 1, 2019, by and between 23andMe, Inc. and Kenneth Hillan (incorporated by reference to Exhibit 10.9 to the Registration Statement on Form S-4/A (File No. 333-254772), filed with the SEC on May 13, 2021).
10.11+	Offer Letter, dated as of March 27, 2018, by and between 23andMe, Inc. and Steve Schoch (incorporated by reference to Exhibit 10.11 to the Registration Statement on Form S-4/A (File No. 333-254772), filed with the SEC on May 13, 2021).
10.12	Consulting Agreement, dated as of April 1, 2019, by and between 23andMe, Inc. and Richard Scheller, Ph.D. (incorporated by reference to Exhibit 10.12 to the Registration Statement on Form S-4/A (File No. 333-254772), filed with the SEC on May 13, 2021).
10.13	Amendment No. 1 to Consulting Agreement, dated as of March 30, 2020, by and between 23andMe, Inc. and Richard Scheller, Ph.D. (incorporated by reference to Exhibit 10.13 to the Registration Statement on Form S-4/A (File No. 333-254772), filed with the SEC on May 13, 2021).
10.14	Amendment No. 2 to Consulting Agreement, dated as of March 24, 2021, by and between 23andMe, Inc. and Richard Scheller, Ph.D. (incorporated by reference to Exhibit 10.14 to the Registration Statement on Form S-4/A (File No. 333-254772), filed with the SEC on May 13, 2021).
10.15*	Amendment No. 3 to Consulting Agreement, dated as of March 24, 2022, by and between 23andMe, Inc. and Richard Scheller, Ph.D.
10.16*	Amendment No. 4 to Consulting Agreement, dated as of March 10, 2023, by and between 23andMe, Inc. and Richard Scheller, Ph.D.
10.17+	23andMe, Inc. 2006 Equity Incentive Plan (as Amended and Restated) (incorporated by reference to Exhibit 10.15 to the Registration Statement on Form S-4/A (File No. 333-254772), filed with the SEC on May 13, 2021).
10.18+	Form of 23andMe, Inc. 2006 Stock Option Agreement (incorporated by reference to Exhibit 10.16 to the Registration Statement on Form S-4/A (File No. 333-254772), filed with the SEC on May 13, 2021).
10.19††	Collaboration Agreement, dated as of July 24, 2018, by and between 23andMe, Inc. and GlaxoSmithKline Intellectual Property (No.3) Limited (incorporated by reference to Exhibit 10.17 to the Registration Statement on Form S-4/A (File No. 333-254772), filed with the SEC on May 13, 2021).
10.20††	First Amendment to Collaboration Agreement, dated as of April 8, 2019, by and between 23andMe, Inc. and GlaxoSmithKline Intellectual Property (No.3) Limited (incorporated by reference to Exhibit 10.18 to the Registration Statement on Form S-4/A (File No. 333-254772), filed with the SEC on May 13, 2021).
10.21††	Second Amendment to Collaboration Agreement, dated as of January 13, 2021, by and between 23andMe, Inc. and GlaxoSmithKline Intellectual Property (No. 3) Limited (incorporated by reference to Exhibit 10.19 to the Registration Statement on Form S-4/A (File No. 333-254772), filed with the SEC on May 13, 2021).
10.22+	Form of 23andMe, Inc. Employee Invention Assignment and Confidentiality Agreement (incorporated by reference to Exhibit 10.20 to the Registration Statement on Form S-4/A (File No. 333-254772), filed with the SEC on May 13, 2021).
10.23	Promissory Note dated April 5, 2021, issued by VG Acquisition Corp. to VG Acquisition Sponsor LLC (incorporated by reference to Exhibit 10.21 to the Registration Statement on Form S-4/A (File No. 333-254772), filed with the SEC on May 13, 2021).
10.24+	Form of 23andMe Holding Co. 2021 Nonqualified Stock Option Grant Agreement (incorporated by reference to Exhibit 10.22 to the Quarterly Report on Form 10-Q, filed with the SEC on August 13, 2021).
10.25+	Form of 23andMe Holding Co. 2021 Restricted Stock Unit Agreement (Employee) (incorporated by reference to Exhibit 10.1 to the Quarterly Report on Form 10-Q, filed with the SEC on November 10, 2021).
10.26+	Form of 23andMe Holding Co. 2021 Restricted Stock Unit Agreement (Non-Employee Director) (incorporated by reference to Exhibit 10.2 to the Quarterly Report on Form 10-Q, filed with the SEC on November 10, 2021).
10.27+	Offer Letter, dated as of October 21, 2021, by and between 23andMe Holding Co. and Paul Johnson (incorporated by reference to Exhibit 10.1 to the Quarterly Report on Form 10-Q, filed with the SEC on February 11, 2022).
10.28+*	Relinquishment Agreement, by and between 23andMe Holding Co. and Paul Johnson, October 21, 2021.
10.29+	23andMe Holding Co. Change in Control Separation Plan (incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed with the SEC on December 9, 2022).
10.30+*	23andMe Amended and Restated Annual Incentive Plan
10.31+*	Form of 23andMe Holding Co. 2022 Restricted Stock Unit Agreement (Non-Employee Director).
10.32+*	Form of 23andMe Holding Co. 2023 Restricted Stock Unit Agreement (Employee – Amended and Restated Annual Incentive Plan Awards).

[Table of Contents](#)

21.1*	List of Subsidiaries.
23.1**	Consent of KPMG, independent registered public accounting firm of 23andMe Holding Co.
31.1*	Certification of Principal Executive Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
31.2*	Certification of Principal Financial Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1**	Certification of Principal Executive Officer Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
32.2**	Certification of Principal Financial Officer Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
101.INS	Inline XBRL Instance Document – the instance document does not appear in the Interactive Data File because XBRL tags are embedded within the Inline XBRL document.
101.SCH	Inline XBRL Taxonomy Extension Schema Document
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)

*	Filed herewith
**	Furnished herewith
+	Indicates management contract or compensatory plan or arrangement
†	Schedules and exhibits to this agreement have been omitted pursuant to Item 601(b)(2) of Regulation S-K. A copy of any omitted schedule and/or exhibit will be furnished to the SEC upon request.
††	The Registrant has redacted provisions or terms of this Exhibit pursuant to Regulation S-K Item 601(b)(10)(iv). The Registrant agrees to furnish an unredacted copy of the Exhibit to the SEC upon its request.

Item 16. Form 10-K Summary

None.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, as amended, the Registrant has duly caused this Report to be signed on its behalf by the undersigned, thereunto duly authorized.

23ANDME HOLDING CO.

Date: May 25, 2023

By: /s/ Anne Wojcicki

Name: Anne Wojcicki
Chief Executive Officer and President
(Principal Executive Officer)

Date: May 25, 2023

By: /s/ Joseph Selsavage

Name: Joseph Selsavage
Interim Chief Financial and Accounting Officer
(Principal Financial and Accounting Officer)

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, this Report has been signed below by the following persons on behalf of the Registrant and in the capacities and on the dates indicated.

Name	Title	Date
<hr/> <i>/s/ Anne Wojcicki</i> Anne Wojcicki	Chief Executive Officer and Director (Principal Executive Officer)	May 25, 2023
<hr/> <i>/s/ Joseph Selsavage</i> Joseph Selsavage	Interim Chief Financial and Accounting Officer (Principal Financial and Accounting Officer)	May 25, 2023
<hr/> <i>/s/ Roelof Botha</i> Roelof Botha	Director	May 25, 2023
<hr/> <i>/s/ Patrick Chung</i> Patrick Chung	Director	May 25, 2023
<hr/> <i>/s/ Sandra R. Hernández, M.D.</i> Sandra R. Hernández, M.D.	Director	May 25, 2023
<hr/> <i>/s/ Evan Lovell</i> Evan Lovell	Director	May 25, 2023
<hr/> <i>/s/ Neal Mohan</i> Neal Mohan	Director	May 25, 2023
<hr/> <i>/s/ Valerie Montgomery Rice, M.D.</i> Valerie Montgomery Rice, M.D.	Director	May 25, 2023
<hr/> <i>/s/ Richard Scheller, Ph.D.</i> Richard Scheller, Ph.D.	Director	May 25, 2023
<hr/> <i>/s/ Peter Taylor</i> Peter Taylor	Director	May 25, 2023

**Amendment No. 3
to Consulting Agreement and Statement of Work #1**

This Amendment No. 3 (“**Amendment No. 3**”) is to the Consulting Agreement by and between 23andMe, Inc. (“**23andMe**”) and Richard Scheller, Ph.D. (“**Consultant**”) with an Effective Date of April 1, 2019, and as amended (“**Agreement**”), including Statement of Work #1 (“**SOW#1**”) to the Agreement. Collectively, 23andMe and Consultant may be referred to as “**Parties**.” Capitalized terms not defined herein will have the meanings ascribed to them in the Agreement.

This Amendment No. 3 is effective as of March 24, 2022 (the “**Amendment No. 3 Effective Date**”).

WHEREAS, the Parties wish to amend certain terms of the Agreement;

NOW, THEREFORE, the Parties agree to the following amendments to the Agreement and SOW#1:

1. The first sentence in Section 8, titled “Term and Termination,” is hereby deleted and replaced in its entirety with the following:

This Agreement shall commence on the Effective Date and continue for a period of four (4) years, unless terminated earlier as described in this Section 8 or extended by mutual written agreement between the Parties.

2. The section titled “Term/Termination (for this Statement of work)” in Exhibit A, SOW #1, is hereby deleted and replaced in its entirety with the following:

Term/Termination (for this Statement of Work): April 1, 2019 to March 31, 2023

3. The section title “Compensation for Services” shall remain in effect with Consultant continuing to receive \$10,000.00 USD per month for eight (8) hours of work per week and his Options will continue to vest.

All other terms and conditions of the Agreement will remain the same and in full force and effect. In the event there is conflict between the terms of the Agreement and the terms of this Amendment No. 3, this Amendment No. 3 will govern. This Amendment No. 3 may be executed in counterparts, each of which when executed will be deemed an original and together will constitute one and the same agreement. This Amendment No. 3 may be executed by .PDF or electronic means each of which shall be deemed an original.

IN WITNESS WHEREOF, the Parties have duly executed this Amendment No. 3 as of the Amendment No. 3 Effective Date above.

23andMe, Inc.

Richard Scheller, PhD.

Signature: /s/ Monica Viziano

Signature: /s/ Richard Scheller

Print Name: Monica Viziano

Date Signed: Mar 16, 2022

Title: VP Portfolio Strategy and Alliance Management

Date Signed: Mar 16, 2022

**Amendment No. 4
to Consulting Agreement and Statement of Work #1**

This Amendment No. 4 (“**Amendment No. 4**”) is to the Consulting Agreement by and between 23andMe, Inc. (“**23andMe**”) and Richard Scheller, Ph.D. (“**Consultant**”) with an Effective Date of April 1, 2019, and as amended (“**Agreement**”), including Statement of Work #1 (“**SOW#1**”) to the Agreement. Collectively, 23andMe and Consultant may be referred to as “**Parties**.” Capitalized terms not defined herein will have the meanings ascribed to them in the Agreement.

This Amendment No. 4 is effective as of March 10, 2023 (the “**Amendment No. 4 Effective Date**”).

WHEREAS, the Parties wish to amend certain terms of the Agreement;

NOW, THEREFORE, the Parties agree to the following amendments to the Agreement and SOW#1:

1. The first sentence in Section 8, titled “Term and Termination,” is hereby deleted and replaced in its entirety with the following:

This Agreement shall commence on the Effective Date and continue for a period of five (5) years, unless terminated earlier as described in this Section 8 or extended by mutual written agreement between the Parties.

2. The section titled “Term/Termination (for this Statement of work)” in Exhibit A, SOW #1, is hereby deleted and replaced in its entirety with the following:

Term/Termination (for this Statement of Work): April 1, 2019 to March 31, 2024

3. The section title “Compensation for Services” shall remain in effect with Consultant continuing to receive \$10,000.00 USD per month for eight (8) hours of work per week.

All other terms and conditions of the Agreement will remain the same and in full force and effect. In the event there is conflict between the terms of the Agreement and the terms of this Amendment No. 4, this Amendment No. 4 will govern. This Amendment No. 4 may be executed in counterparts, each of which when executed will be deemed an original and together will constitute one and the same agreement. This Amendment No. 4 may be executed by .PDF or electronic means each of which shall be deemed an original.

IN WITNESS WHEREOF, the Parties have duly executed this Amendment No. 4 as of the Amendment No. 4 Effective Date above.

23andMe, Inc.

Richard Scheller, PhD.

Signature: /s/ Monica Viziano

Signature: /s/ Richard Scheller

Print Name: Monica Viziano

Date Signed: Mar 7, 2023

Title: VP Portfolio Strategy and Alliance Management

Date Signed: Mar 8, 2023

RELINQUISHMENT AGREEMENT

This RELINQUISHMENT AGREEMENT (this “**Agreement**”) is made and entered into as of October 21, 2021, by and between 23andMe Holding Co., a Delaware corporation (“**Parent**”), and Paul Johnson (“**Holder**”).

RECITALS

A. Concurrent with the execution and delivery of this Agreement, Parent, Life Merger Sub One, Inc., a Delaware corporation and a wholly owned subsidiary of Parent (“**First Merger Sub**”), Life Merger Sub Two, Inc., a Delaware limited liability company and a wholly owned subsidiary of Parent (“**Second Merger Sub**” and together with First Merger Sub, “**Merger Subs**”), Lemonaid Health, Inc., a Delaware corporation (the “**Company**”), and Fortis Advisors LLC, a Delaware limited liability company, solely in its capacity as the representative of the Indemnifying Parties (“**Securityholders’ Representative**”), are entering into an Agreement and Plan of Merger and Reorganization (the “**Merger Agreement**”), pursuant to which First Merger Sub will merge with and into the Company, and the Company will become a wholly owned subsidiary of Parent (the “**First Merger**”) and, as part of the same overall transaction, the Company will then merge with and into Second Merger Sub, and Second Merger Sub will survive as a direct, wholly owned Subsidiary of Parent (the “**Second Merger**” and, together with the First Merger, the “**Mergers**”). Capitalized terms used but not otherwise defined in this Agreement shall have the meanings assigned to such terms in the Merger Agreement.

B. Holder is a stockholder, optionholder and key employee of the Company. Holder acknowledges and agrees that a material inducement for Parent and Merger Subs to enter into the Merger Agreement is based on the value that Holder brings to the business, and Holder’s willingness to enter into this Agreement, and that absent the execution and performance of this Agreement in accordance with its terms by Holder, Parent and Merger Subs would not be willing to enter into the Merger Agreement or to consummate the Mergers.

NOW THEREFORE, intending to be legally bound, for and in consideration of the premises and mutual covenants and agreements contained in this Agreement and in the Merger Agreement, the parties agree as follows:

1. Escrow of Relinquishment Amount; Re-Vesting of Options.

1.1 Relinquishment Escrow Fund. At the Closing, Parent shall retain seventy-five percent (75%) of the portion of Merger Consideration otherwise payable to Holder in Parent Class A Common Stock (the “**Relinquishment Amount**”) in respect of Holder’s shares of the Company’s Common Stock. The Relinquishment Amount shall be held by Parent in an account (the “**Relinquishment Escrow Fund**”) in trust under the terms of this Agreement. Holder will be entitled to exercise voting rights with respect to such Parent Class A Common Stock held in the Relinquishment Escrow Fund (the “**Restricted Parent Class A Common Stock**”) and will be entitled to receive any cash dividends paid with respect to the Restricted Parent Class A Common Stock; provided that any such cash dividends shall be paid into the Relinquishment Escrow Fund and released in accordance with the terms of this Agreement applicable to the underlying Restricted Parent Class A Common Stock. Holder agrees that the Relinquishment Amount shall be subject to forfeiture pursuant to the vesting schedule set forth in Section 1.2 hereof. It is the intention of Parent and Holder that the Closing constitute a “transfer” under Section 83 of the Code and this Agreement will be interpreted accordingly.

1.2 Release of Relinquishment Amount. Subject to Holder’s continuous employment by a Company Group Member (defined below), the Relinquishment Amount will vest over four (4) years as follows: a portion equal to 1/16th of the Relinquishment Amount will vest every three months, commencing on the date that is three months immediately following the Closing Date and ending on the fourth

anniversary of the Closing Date, and Parent shall promptly (and in any event within ten (10) Business Days of each such vesting date) release such amount from the Relinquishment Escrow Fund, with such amount to be delivered to Holder upon release. For purposes of this Agreement, “**Company Group Member**” means

any of the Company or any of its subsidiaries (whether existing as of or following the Effective Time), including the Final Surviving Corporation, Parent, any subsidiaries of the foregoing (whether existing as of or following the Effective Time) and any successor of the foregoing.

1.3 Option Vesting Schedule. At the Closing, the Re-Vested Options (as defined in Section 3.1) shall be converted into options to purchase a number of shares of Parent Class A Common Stock calculated in accordance with the Merger Agreement at a per-share exercise price calculated in accordance with the Merger Agreement, subject to the terms of the Parent's 2021 Incentive Equity Plan, and each such Re-Vested Option shall be subject to the following vesting schedule: Subject to Holder's continuous employment by a Company Group Member, the Re-Vested Options will vest over four (4) years, whereby a portion equal to 1/16th of the Re-Vested Options will vest every three months, commencing on the date that is three months immediately following the Closing Date and ending on the fourth anniversary of the Closing Date.

1.4 Consequences of Termination.

(a) Subject to Section 1.4(b), if, at any time before the Relinquishment Amount and Re-Vested Options are fully vested, Holder's employment with a Company Group Member is terminated either by Holder or by such Company Group Member for any reason other than as a result of Holder's death or Disability (as defined in the Parent's 2021 Incentive Equity Plan), then Holder will immediately forfeit any then unvested portion(s) of the Relinquishment Amount and Re-Vested Options as of the date of termination for no consideration. In such case, the forfeited Relinquishment Amount shall be released from the Relinquishment Escrow Fund permanently to Parent with no obligation to deliver any such portion of the unvested Relinquishment Amount to Holder under this Agreement or the Merger Agreement or otherwise, and the forfeited Re-Vested Options shall be cancelled without any consideration being paid to Holder.

(b) During the four-year period commencing on the Closing Date (the "**Protection Period**"), Parent shall not (i) terminate Holder's employment without Cause (defined below), (ii) materially reduce Holder's base salary or the benefits to which similarly-situated executive employees of Parent or any of Parent's subsidiaries are entitled, other than a broad-based reduction to the same extent that applies to such similarly-situated executive employees or (iii) relocate Holder's principal place of employment to a location outside of a fifty (50)-mile radius of Holder's current principal place of employment. If any such event occurs during the Protection Period or in the event of Holder's death or Disability, then Holder's sole remedy with respect thereto, whether under this Agreement or any other agreement between Holder and Parent or any subsidiary of Parent, or any other legal theory, shall be (i) the immediate vesting of any unvested portion of the Relinquishment Amount and the prompt release by Parent of such amount from the Relinquishment Escrow Fund (and in any event within ten (10) Business Days of such vesting date), with such amount to be delivered to Holder upon release and (ii) the immediate vesting of any unvested Re-Vested Options, which shall remain subject to the applicable award agreement.

(c) For purposes of this Agreement, "**Cause**" means any of the following acts or omissions by Holder following the date of this Agreement: (A) embezzlement, theft, misappropriation or conversion by Holder of any property of a Company Group Member; (B) any breach by Holder of the Non-Competition and Non-Solicitation Agreement entered into by Holder in favor and for the benefit of Parent on the date hereof in connection with the Mergers; (C) a breach by Holder of any material provision of this Agreement which breach is not cured, to the extent susceptible to cure, within 14 days after Parent has given written notice to Holder describing such breach; (D) willful failure or refusal by Holder to perform any material duties of his employment which continues for a period of 14 days following written notice

thereof by Parent to Holder; (E) conviction of Holder or plea of nolo contendere (or a similar plea), of any act constituting a felony (or its equivalent in any non-United States jurisdiction) or other crime involving theft, fraud, dishonesty, misrepresentation or moral turpitude; (F) any violation of any law, rule or regulation which results in a material adverse effect on the business operations of any Company Group Member or regulatory disqualification, or willful failure to comply with any legal or compliance policies or code of ethics, code of business conduct, conflicts of interest policy or similar compliance policies of any Company Group Member; (G) gross negligence or willful misconduct on the part of Holder in the performance of his duties as an employee, officer or director of any Company Group Member that results in material harm to any Company Group Member; (H) Holder's breach of his fiduciary obligations, or disloyalty, to any Company Group Member; or (I) Holder's failure to cooperate, if requested in writing by Parent, with any

investigation or inquiry into the business practices of a Company Group Member, whether internal or external, including, but not limited to, Holder's refusal to be deposed or to provide testimony or evidence at any trial, proceeding or inquiry.

1.5 Tax Matters.

(a) Parent and Holder agree that (i) Holder shall be treated for applicable Tax purposes as the owner of the Restricted Parent Class A Common Stock and all other amounts held in the Relinquishment Escrow Fund, and (ii) Holder shall be treated for applicable Tax purposes as having earned all interest, dividends, gains, and other income with respect to investment of any amounts held in the Relinquishment Escrow Fund.

(b) Holder shall make an election with the U.S. Internal Revenue Service under Section 83(b) of the Code with respect to the shares of Restricted Parent Class A Common Stock (the "**Section 83(b) Election**"), by completing the form attached hereto as Exhibit A (the "**Section 83(b) Election Form**") and sending the Section 83(b) Election Form and supporting materials to the U.S. Internal Revenue Service not later than thirty (30) days after the Closing Date. Holder shall provide Parent with an executed copy of such completed Section 83(b) Election Form for its records.

(c) If Holder timely makes the Section 83(b) Election in accordance with Section 1.5(b), Holder and Parent intend to treat the Restricted Parent Class A Common Stock as payment of consideration in exchange for Holder's shares in a manner consistent with the principles of Rev. Rul. 2007- 49, 2007-2 C.B. 237, *Situation 2*, and not as compensation income for U.S. federal income tax purposes. Parent, Holder, and their respective Affiliates will prepare all Tax Returns consistent with the foregoing intended tax treatment and shall not take any Tax position which is inconsistent with the foregoing intended tax treatment, unless there is a contrary assessment or determination made by a Taxing Authority.

(d) Subject to Section 1.5(c), Parent, Merger Subs, the Company, the Surviving Company, and their respective Affiliates shall each be entitled to deduct and withhold from any amounts payable or otherwise deliverable to Holder (including amounts released from the Relinquishment Escrow Fund to Holder), such amounts as are required to be deducted or withheld therefrom under any provision of federal, state, local, or non-U.S. Tax Law. To the extent such amounts are so deducted or withheld, such amounts shall be treated for all purposes of this Agreement as having been paid and delivered to Holder.

(e) Notwithstanding anything to the contrary contained in this Agreement, the Merger Agreement or otherwise, no portion of the Relinquishment Amount or any beneficial interest therein may be pledged, sold, assigned, or transferred, including by operation of law, by Holder, or may be taken or reached by any legal or equitable process in satisfaction of any debt or other liability of Holder, in each case unless and until actually released to Holder in accordance with the terms of this Agreement.

2. Termination. In the event the Mergers are not completed and the Merger Agreement is terminated for any reason in accordance with its terms, this Agreement will be null and void and of no effect.

3. Miscellaneous Provisions.

3.1 Representations and Warranties. Holder represents and warrants to Parent that as of the date hereof and on the Closing Date, Holder owns 526,715 shares of Common Stock, 23,591 shares of Preferred Stock, zero Warrants and the following Options: (1) an Option to purchase 484,285 shares of Common Stock with an exercise price of \$0.53; (2) an Option to purchase 119,275 shares of Common Stock with an exercise price of \$0.60; (3) an Option to purchase 216,457 shares of Common Stock with an exercise price of \$0.62; and (4) an Option to purchase 725,523 shares of Common Stock with an exercise price of \$1.73. Seventy-five percent (75%) of each of the Options shall be subject to the re-vesting requirements set forth in Section 1.3 (the "**Re-Vested Options**"). Holder represents and warrants that Holder has good and marketable title to the above-referenced shares of Common Stock and Preferred Stock, free and clear of all liens, encumbrances, and claims whatsoever. For the purpose of this Agreement, beneficial ownership will be determined in accordance with Rule 13d-3 under the Securities Exchange Act of 1934, as amended. Holder represents and warrants that this Agreement is a legal, valid and binding obligation, enforceable against Holder in accordance with its terms.

interpreted, construed and governed solely and exclusively by and in accordance with the Laws of the State of Delaware without regard to the conflicts of laws principles thereof that would compel the application of the Laws of another jurisdiction.

3.9 Submission to Jurisdiction; Consent to Service of Process. The parties hereby irrevocably submit to the exclusive jurisdiction of the courts of Delaware and the federal courts of the United States of America located in Delaware solely in respect of the interpretation and enforcement of the provisions of this Agreement, and hereby waive, and agree not to assert, as a defense in any Proceeding for the interpretation or enforcement of this Agreement, that it is not subject thereto or that such Proceeding may not be brought or is not maintainable in said courts or that the venue thereof may not be appropriate or that this Agreement may not be enforced in or by such courts. The parties hereby consent to and grant any such court jurisdiction over the Person of such parties and over the subject matter of such dispute and agree that mailing of process or other papers in connection with any such action in the manner provided in Section 3.3 as permitted by Applicable Law, shall be valid and sufficient service thereof. NOTHING IN THIS AGREEMENT SHALL AFFECT THE RIGHT OF ANY PARTY TO THIS AGREEMENT TO SERVE PROCESS IN ANY OTHER MANNER PERMITTED BY LAW.

3.10 At Will Employment. Nothing in this Agreement is intended to constitute an employment contract or a guaranty of continued employment, and Holder's employment by Parent (or any subsidiary or parent of Parent) will be "at will."

3.11 Entire Agreement. This Agreement, including the Exhibits hereto, and the Merger Agreement and the other Transaction Documents constitute the entire agreement among the parties hereto with respect to the subject matter hereof and thereof and supersede all other prior and contemporaneous agreements and understandings, both written and oral, among the parties with respect to the subject matter hereof.

[remainder of page intentionally blank]

IN WITNESS WHEREOF, the parties below have duly executed this Relinquishment Agreement as of the date first written above.

23ANDME HOLDING CO.

/s/ Annie Wojcicki

By: Anne Wojcicki
Its: Chief Executive Officer

[Signature Page to Relinquishment Agreement]

IN WITNESS WHEREOF, the parties below have duly executed this Relinquishment Agreement as of the date first written above.

HOLDER:

/s/ Paul Johnson

Name: Paul Johnson

Title:

[Signature Page to Relinquishment Agreement]

23andMe
Amended and Restated Annual Incentive Plan

1. Purpose of this Plan.

This 23andMe Annual Incentive Plan is intended to attract, retain, motivate and reward Participants by providing them with the opportunity to earn annual incentive compensation under this Plan related to the Company's performance.

2. Definitions.

For purposes of this Plan, the following terms shall be defined as follows:

- (a) **"Affiliate"** means (i) any subsidiary or parent of the Company or (ii) an entity that directly or through one or more intermediaries controls, is controlled by or is under common control with, the Company, as determined by the Committee.
 - (b) **"Award"** means incentive compensation earned under this Plan pursuant to Section 4 of this Plan.
 - (c) **"Board"** means the Parent's Board of Directors.
 - (d) **"Cause"** has the meaning given to that term in any written employment agreement, offer letter or severance agreement between the Company and the Participant, or if no such agreement exists or if such term is not defined therein, Cause means a finding by the Committee that the Participant (i) has breached his or her employment or service contract with the Company, (ii) has engaged in disloyalty to the Company, including, without limitation, fraud, embezzlement, theft, commission of a felony or proven dishonesty, (iii) has disclosed trade secrets or confidential information of the Company to persons not entitled to receive such information, (iv) has breached any written non-competition, non-solicitation, invention assignment or confidentiality agreement between the Company and the Employer or (v) has engaged in such other behavior detrimental to the interests of the Company as the Committee determines.
 - (e) **"Code"** means the Internal Revenue Code of 1986, as amended. References to any provisions of the Code or regulation thereunder shall include any successor provisions and regulations, and reference to regulations includes any applicable guidance or pronouncement of the Department of Treasury and Internal Revenue Service.
 - (f) **"Committee"** means the Compensation Committee of the Board or such other committee as the Board shall appoint from time to time to administer this Plan and to otherwise exercise and perform the authority and functions assigned to the Committee under the terms of this Plan; provided, however, that the powers and authority of the Committee under this Plan may be delegated to the Company's Chief Executive Officer ("**CEO**") or other employee(s) and, in connection therewith, all references to the Committee in this Plan shall be deemed references to the Company's CEO and such employee(s) as it relates to those aspects of this Plan that have been so delegated.
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- (g) **“Company”** means 23andMe, Inc. (together with its successors and assigns) and all of its Affiliates, collectively.
- (h) **“Disability”** means that the Participant is by reason of any medically determinable physical or mental impairment which can be expected to result in death or can be expected to last for a continuous period of not less than 12 months receiving income replacement benefits for a period of not less than three months under an accident or health plan of the Company.
- (i) **“Exchange Act”** means the Securities Exchange Act of 1934, as amended. References to any provision of the Exchange Act or rule (including a proposed rule) thereunder shall include any successor provisions and rules.
- (j) **“Incentive Plan”** means the 23andMe Holding Co. 2021 Incentive Equity Plan, as in effect from time to time.
- (k) **“Parent”** means 23andMe Holding Co.
- (l) **“Participant”** means, with respect to each Performance Period, each employee or other service provider of the Company selected by the Committee to participate in this Plan for such period. Unless otherwise determined by the Committee, employees will be eligible to be selected as Participants for any Performance Period so long as (i) they are regularly scheduled to work an average of at least twenty (20) hours per week during such Performance Period and (ii) they will have been employed for at least one full quarter during such Performance Period.
- (m) **“Performance Measures”** means the goal(s) (or combined goal(s)), as determined by the Committee to be applicable to a Participant’s Award. As determined by the Committee, the Performance Measures applicable to an Award may be described in terms of Company-wide objectives and/or objectives that are related to the performance of an individual Participant or of a Subsidiary or division in which the Participant is employed or be established relative to a comparison with other corporations or an external index or indicator, or relative to a comparison with performance in a prior period, as the Committee deems appropriate. Performance Measures may differ among Participants and Awards and may include, without limitation, the following: earnings or profitability measures (which include net income, operating income, income (loss) per common share from continuing operations, either basic or fully diluted, net income (loss) per common share, either basic or fully diluted, earnings before interest, taxes, depreciation, and amortization (including without limitation adjusted EBITDA), earnings before interest and taxes, any pre-established derivative of revenue (gross, operating, or net), pre-tax operating income, inventory turnover or inventory shrinkage, sales growth and volumes, percentage increase in total net revenue, and economic profit or value created); expense and efficiency measures (which include gross margins, cost of goods sold, mark-ups or mark-downs, operating margins, selling, general and administrative expense, and other pre-established operating expenses); return measures (which include total stockholder return, stock price, return on assets, return on investment, return on capital, and return on equity); cash flow measures (which include cash flow, free cash flow, cash flow return on investment, and net cash provided by operations); achievement of balance sheet, income statement, or cash-flow statement objectives; strategic or operational business criteria, consisting

of one or more objectives based on meeting specified market penetration, geographic expansion or new concept development goals, or regulatory approval of new products or services; cost targets; customer satisfaction; employee satisfaction; human resources goals, including staffing, training and development and succession planning; supervision of litigation and information technology; environmental, social and governance (“ESG”) or sustainability goals; goals relating to human capital management; and goals relating to acquisitions or divestitures of subsidiaries, affiliates or joint ventures.

- (n) **“Performance Period”** means a fiscal year of the Company or such shorter period as may be designated by the Committee with respect to an Award.
- (o) **“Plan”** means this 23andMe Annual Incentive Plan, as may be amended from time to time.
- (p) **“Section 409A”** means Section 409A of the Code.
- (q) **“Subsidiary”** means any **“subsidiary”** within the meaning of Rule 405 under the Securities Act of 1933, as amended.

3. Administration.

- (a) **Power and Authority of the Committee.** This Plan shall be administered by the Committee which shall have full power and authority:
 - (i) to designate each Performance Period;
 - (ii) to establish the Performance Measures for each Performance Period and to determine whether and to what extent such Performance Measures have been reached;
 - (iii) to determine at any time the cash amount payable with respect to an Award;
 - (iv) to prescribe, amend and rescind rules and procedures relating to this Plan;
 - (v) subject to the provisions of this Plan, to delegate to one or more officers, a subcommittee of the Committee or other members of the Board of the Company some of its authority under this Plan and, for such purposes, the delegates shall have the same authority of the Committee hereunder;
 - (vi) to employ such legal counsel, independent auditors and consultants as it deems desirable for the administration of this Plan and to rely upon any opinion or computation received therefrom;
 - (vii) to amend, modify, or cancel any Award, and authorize the exchange, substitution, or replacement of Awards; and
 - (viii) to make all determinations, and to formulate such procedures, as may be necessary or advisable in the opinion of the Committee for the administration of this Plan.

- (b) **Plan Construction and Interpretation.** The Committee shall have full power and authority to construe and interpret this Plan and to correct any defect or omission, or reconcile any inconsistency, in this Plan or any Award.
- (c) **Determinations of Committee Final and Binding.** All determinations by the Committee and its delegates in carrying out and administering this Plan and in construing and interpreting this Plan shall be made in the Committee's and its delegates' sole discretion and shall be final, binding and conclusive for all purposes and upon all persons interested herein. The Committee's and its delegates' decisions regarding the amount of each Award need not be consistent among Participants.
- (d) **Liability of Committee.** No member of the Committee (or its delegates) shall be liable for any action or determination made in good faith with respect to this Plan or any Award, and the members of the Committee (and its delegates) shall be entitled to indemnification and reimbursement in the manner provided in the Parent's Certificate of Incorporation or its Bylaws, as applicable, in each case as amended and in effect from time to time. In the performance of its responsibilities with respect to this Plan, the Committee shall be entitled to rely upon information and advice furnished by the Company's officers and employees, the Company's accountants, the Company's legal counsel or any other person the Committee deems necessary, and no member of the Committee shall be liable for any action taken or not taken in good faith reliance upon any such advice.

4. Awards.

- (a) **Performance Measures.** The Committee has the discretion to structure Awards in any manner it deems advisable, on an individual or group basis, including, but not limited to, the Performance Measures to be achieved, and specifying whether and to what extent the Award may become payable in the event of death, Disability, termination without Cause, or a change in ownership or control prior to the end of the Performance Period or the date of payment.
- (b) **Communication of Award Terms.** As soon as practicable after the Committee establishes the terms of Awards for a Performance Period, the Committee or its delegate shall communicate the terms of such Awards to Participants in an Award letter or similar document.
- (c) **Determination of Award.** Following the completion of each Performance Period and prior to payment of any Award, the Committee shall certify in writing whether and the extent to which the applicable Performance Measures have been achieved for such Performance Period. In determining the amount of the Award earned by a Participant for a given Performance Period, the Committee may, in its discretion, increase, reduce or eliminate the amount that would otherwise be payable based on the certified level of attained performance of the Performance Measure(s). In exercising such discretion, the Committee may utilize any such objective or subjective criteria as the Committee deems appropriate in its sole and absolute discretion. Notwithstanding any other language in this Plan, the amount of any Award certified by the Committee for payment remains subject to any material changes to the Company's audited financial statements for the Performance Period

if the Committee certifies any such Award for payment prior to the time such audited financial statements are finalized.

- (d) **Payment of Awards.** Except as otherwise provided herein, Awards shall be paid to the Participant as soon as administratively practicable following the end of the Performance Period and the certification by the Committee of the attainment of the Performance Measures with respect thereto, but in any event, no later than the later of (i) two and one-half months following the end of the Company's first fiscal year in which the Award is no longer subject to a "substantial risk of forfeiture" (within the meaning of Section 409A), or (ii) two and one-half months following the end of the Participant's first taxable year in which the Award is no longer subject to such a substantial risk of forfeiture, unless deferred as described in Section 5 of this Plan. Awards will be paid in cash or in the form of restricted stock units ("RSUs") issued by Parent under the Incentive Plan, as determined by the Committee; for purposes hereof, the number of RSUs shall be determined by dividing the dollar amount of the Award, or the portion of the Award to be paid in RSUs, by the trailing average closing price of a share of the Parent's Class A Common Stock on the Nasdaq Global Select Market for the thirty days (or such other number of days determined by the Committee) preceding the date of payment. Payment of an Award is subject to recoupment or clawback as provided in Section 8(l). Payment of Awards may be subject to such forfeiture, transfer, or such other restrictions (or any combination thereof) as the Committee shall specify. Any RSUs issued in respect of Awards hereunder shall be subject to the terms of the Incentive Plan and any award agreement issued thereunder.
- (e) **Employment Requirement.**
- (i) Except as otherwise provided in this Section 4(e) or as otherwise determined by the Committee, no Award shall be paid to any Participant who is not actively employed by the Company on the date that Awards are paid.
- (ii) If a Participant's employment is terminated by reason of his or her death or Disability following the expiration of a Performance Period but before the date that Awards are paid, the Participant or his or her beneficiary will be paid the Award that would otherwise be payable if the Participant remained employed through the date that Awards are paid. In the case of a Participant's Disability, the employment termination shall be deemed to have occurred on the date that it is determined that the Participant is Disabled. Payment of such Award will be made at the same time and in the same manner as Awards are paid to other Participants.

5. Deferral.

Subject to applicable laws, including, without limitation, Section 409A, the Committee may (i) require the mandatory deferral of some or all of an Award on terms (including vesting terms) established by the Committee or (ii) permit a Participant to elect to defer a portion of an Award in accordance with the terms established under any Company deferred compensation plan, as the same may be amended, or under any successor plan.

6. Effective Date.

This Plan became effective on April 1, 2022.

7. Amendment and Termination.

Subject to applicable laws, rules and regulations, the Board or the Committee may at any time amend, suspend, discontinue or terminate this Plan.

8. Miscellaneous.

- (a) **Tax Withholding.** The Company shall have the right to deduct from all cash payments made to a Participant, or, if deemed necessary by the Company, from wages or other cash compensation paid to the Participant by the Company, any applicable taxes (including social contributions or similar payments) required to be withheld with respect to such payments, and to take such other action as the Committee may deem advisable to enable the Company and the Participant to satisfy obligations for the payment of withholding taxes and other tax obligations relating to any Award. To the extent an award hereunder is payable in the form of RSUs, the Company may withhold from such Award a number of RSUs with a value equal to any required withholding and issue only the net number of RSUs to the Participant.
- (b) **No Rights to Awards or Employment.** This Plan is not a contract between the Company and a Participant. No Participant shall have any claim or right to receive Awards under this Plan, nor shall any Participant have the right to be treated uniformly with other Participants and employees. Nothing in this Plan shall confer upon any employee or other service provider of the Company any right to continued employment or service with the Company or interfere in any way with the right of the Company to terminate the employment or service of any of its employees or service providers, in accordance with the laws of the applicable jurisdiction, at any time, with or without Cause, including, without limitation, any individual who is then a Participant in this Plan.
- (c) **Section 409A.** The Company intends that this Plan and each Award granted hereunder that is subject to Section 409A shall comply with (or be exempt from) Section 409A and that this Plan shall be interpreted, operated and administered accordingly. If an Award is subject to Section 409A, (i) distributions shall only be made in a manner and upon an event permitted under Section 409A, (ii) payments to be made upon a termination of employment shall only be made upon a “separation from service” under Section 409A, (iii) unless the Award specifies otherwise, each installment payment shall be treated as a separate payment for purposes of Section 409A, and (iv) in no event shall a Participant, directly or indirectly, designate the calendar year in which a distribution is made except in accordance with Section 409A. Any Award granted under this Plan that is subject to Section 409A and that is to be distributed to a key employee (as defined below for this purpose) upon separation from service shall be administered so that any distribution with respect to such Award shall be postponed for six months following the date of the Participant’s separation from service, if required by Section 409A. If a distribution is delayed pursuant to Section 409A, the distribution shall be paid within 30 days after the end of the six-month period. If the Participant dies during

such six-month period, any postponed amounts shall be paid within 90 days of the Participant's death. The determination of key employees, including the number and identity of persons considered key employees and the identification date, shall be made by the Committee or its delegate each year in accordance with Section 416(i) of the Code and the "specified employee" requirements of Section 409A. If any provision of this Plan contravenes any regulations or guidance promulgated under Section 409A or could cause any Award to be subject to taxes, interest or penalties under Section 409A, the Board or the Committee may, in its sole discretion, modify this Plan to (i) comply with, or avoid being subject to, Section 409A, (ii) avoid the imposition of taxes, interest and penalties under Section 409A, and/or (iii) maintain, to the maximum extent practicable, the original intent of the applicable provision without violating the provisions of Section 409A. Neither the Board nor the Committee is obligated to modify this Plan and there is no guarantee that any payments will be exempt from interest and penalties under Section 409A. Notwithstanding anything herein to the contrary, in no event shall the Company be liable for the payment of or gross up in connection with any taxes and or penalties owed by the Participant pursuant to Section 409A. Moreover, any discretionary authority that the Board or the Committee may have pursuant to this Plan shall not be applicable to an Award that is subject to Section 409A to the extent such discretionary authority would contravene Section 409A. No representation is or shall be made in connection with the avoidance of adverse tax treatment of a Participant under Section 409A, and any promise or covenant to maintain favorable or avoid unfavorable tax treatment is hereby expressly disavowed.

- (d) **Other Compensation.** Nothing in this Plan shall preclude or limit the ability of the Company to pay any compensation to a Participant under the Company's other compensation and benefit plans and programs, including without limitation any equity plan or bonus plan, program or arrangement.
- (e) **No Limitation on Corporate Actions.** Nothing contained in this Plan shall be construed to prevent the Company from taking or not taking any corporate action, whether or not such action could have an adverse effect on any Awards made under this Plan. No Participant, beneficiary or other person shall have any claim against the Company as a result of any such action.
- (f) **Unfunded Plan.** This Plan is intended to constitute an "unfunded" plan for incentive and deferred compensation. Prior to the payment of any Award, nothing contained herein shall give any Participant any rights that are greater than those of a general creditor of the Company; provided, however, that the Committee may authorize the creation of trusts or other arrangements to meet the obligations created under this Plan with respect to any Awards payable in cash hereunder. Such trusts or other arrangements shall be consistent with the "unfunded" status of the Plan, unless the Committee otherwise determines.
- (g) **Non-Transferability.** Except as set forth in Section 8(i) herein, no Participant or beneficiary shall have the power or right to sell, transfer, assign, pledge or otherwise encumber or dispose of the Participant's interest under this Plan.
- (h) **Benefit Plan Treatment.** Cash payments made under the Plan to Participants will not be subject to any deductions for health and welfare benefits but will be subject

to any deferral election that a Participant has in effect at the time of payment under the Company's 401(k) plan.

- (i) **Designation of Beneficiary.** Unless otherwise provided by the Committee (or its delegate), a Participant may designate a beneficiary or beneficiaries to receive any payments which may be made following the Participant's death in accordance with the Plan. If a Participant does not designate a beneficiary, or the designated beneficiary or beneficiaries predeceases the Participant, any payments which may be made following the Participant's death shall be made to the Participant's surviving spouse or, if none, the Participant's estate.
- (j) **Severability; Entire Agreement.** If any provision of this Plan or any Award is finally held to be invalid, illegal or unenforceable (whether in whole or in part), such provision shall be deemed modified to the extent, but only to the extent, of such invalidity, illegality or unenforceability, and the remaining provisions shall not be affected thereby; provided, that, if any of such provisions is finally held to be invalid, illegal, or unenforceable because it exceeds the maximum scope determined to be acceptable to permit such provision to be enforceable, such provision shall be deemed to be modified to the minimum extent necessary to modify such scope in order to make such provision enforceable hereunder. The Plan and any Award contain the entire agreement of the parties with respect to the subject matter thereof and supersede all prior agreements, promises, covenants, arrangements, communications, representations and warranties between them, whether written or oral with respect to the subject matter thereof.
- (k) **Expenses.** The costs and expenses of administering this Plan shall be borne by the Company.
- (l) **Clawback.** In the event that the Participant engages in misconduct that causes or partially causes the need for restatement of financial statements that would have resulted in a lower Award where the payment was predicated upon the achievement of certain financial results that were the subject of the restatement, to the extent of the reduction in amount of such Award as determined by the Committee (i) the Award will be cancelled and (ii) the Participant will forfeit the amount paid or payable with respect to the Award (and the Participant may be required to return amounts to the Company). The determination of the lower Award must be made by the Committee no later than the end of the third fiscal year following the year for which the inaccurate financial results were measured; provided, that if steps have been taken within such period to restate the Company's financial or operating results, the time period shall be extended until such restatement is completed. The provisions of this Section 8(l) shall be amended to the extent necessary to comply with any applicable rules issued by the Securities and Exchange Commission and NASDAQ, and any Award made hereunder shall be subject to any claw-back policy adopted by the Company. By accepting Awards under this Plan, Participants agree and acknowledge that they are obligated to cooperate with, and provide any and all assistance necessary to, the Company to recover or recoup any Award or amounts paid under this Plan subject to clawback as provided hereunder. Such cooperation and assistance shall include, but is not limited to, executing, completing and submitting any documentation necessary to recover or recoup any Award or

amounts paid under this Plan from a Participant's accounts, or pending or future compensation or Awards.

- (m) **Governing Law.** The validity, construction, and effect of the Plan, any rules and regulations relating to the Plan and any Awards shall be determined in accordance with the laws of the State of Delaware, without giving effect to principles of conflicts of laws, and applicable provisions of federal law.

**23ANDME HOLDING CO. 2021 INCENTIVE EQUITY PLAN
RESTRICTED STOCK UNIT AGREEMENT**

This RESTRICTED STOCK UNIT AGREEMENT (the “Agreement”), dated as of [] (the “Date of Grant”), is delivered by 23andMe Holding Co. (the “Company”) to [] (the “Participant”).

RECITALS

The 23andMe Holding Co. 2021 Incentive Equity Plan (the “Plan”) provides for the grant of restricted stock units in accordance with the terms and conditions of the Plan. The Committee has decided to make this grant of restricted stock units as an inducement for the Participant to promote the best interests of the Company and its stockholders. This Agreement is made pursuant to the Plan and is subject in its entirety to all applicable provisions of the Plan. Capitalized terms used herein and not otherwise defined will have the meanings set forth in the Plan.

1. Grant of Stock Units. Subject to the terms and conditions set forth in this Agreement and in the Plan, the Company hereby grants the Participant [] restricted stock units, subject to the restrictions set forth below and in the Plan (the “Stock Units”). Each Stock Unit represents the right of the Participant to receive a share of Class A common stock of the Company (“Company Stock”), if and when the specified conditions are met in Section 3 below, and on the applicable payment date set forth in Section 5 below.

2. Stock Unit Account. Stock Units represent hypothetical shares of Company Stock, and not actual shares of stock. The Company shall establish and maintain a Stock Unit account, as a bookkeeping account on its records, for the Participant and shall record in such account the number of Stock Units granted to the Participant. No shares of Company Stock shall be issued to the Participant at the time the grant is made, and the Participant shall not be, and shall not have any of the rights or privileges of, a stockholder of the Company with respect to any Stock Units recorded in the Stock Unit account. The Participant shall not have any interest in any fund or specific assets of the Company by reason of this award or the Stock Unit account established for the Participant.

3. Vesting.

(a) The Stock Units shall become vested with respect to 100% of the Stock Units on the earlier of the first anniversary of the Date of Grant or the date of the annual meeting of the Company’s stockholders for the year following the year of grant (the “Vesting Date”), provided that the Participant continues to provide service to the Company from the Date of Grant until the Vesting Date.

(b) The vesting of the Stock Units shall be cumulative, but shall not exceed 100% of the Stock Units. In the event of a Change of Control before all of the Stock Units vest in accordance with Section 3(a) above, 100% of the Stock Units shall be vested as of the date of the Change of Control.

4. Termination of Stock Units. If the Participant ceases to provide service to the Company for any reason before all of the Stock Units vest, any unvested Stock Units shall automatically terminate and shall be forfeited as of the date of the Participant's termination of service. No payment shall be made with respect to any unvested Stock Units that terminate as described in this Section 4.

5. Payment of Stock Units and Tax Withholding.

(a) If the Stock Units vest, the Company shall issue to the Participant one share of Company Stock for each vested Stock Unit. Payment of any Stock Units that vest shall be made within 30 days after the Vesting Date; provided, that if the Participant elects in accordance with the terms of the 23andMe Holding Co. RSU Conversion and Deferral Program for Directors (the "Program") to defer the issuance of shares, then shares of Company Stock with respect to any RSUs subject to such election shall be issued to the Participant as and when provided under the terms of the Program and the Participant's election.

(b) All obligations of the Company under this Agreement shall be subject to the rights of the Company as set forth in the Plan to withhold amounts required to be withheld for any taxes, if applicable. The Participant shall be required to provide for the payment of any federal, state, local or other taxes with respect to the Stock Units.

(c) The obligation of the Company to deliver Company Stock shall also be subject to the condition that if at any time the Committee shall determine in its discretion that the listing, registration or qualification of the shares upon any securities exchange or under any state or federal law, or the consent or approval of any governmental regulatory body is necessary or desirable as a condition of, or in connection with, the issuance of shares, the shares may not be issued in whole or in part unless such listing, registration, qualification, consent or approval shall have been effected or obtained free of any conditions not acceptable to the Committee. The issuance of shares, if any, to the Participant pursuant to this Agreement is subject to any applicable taxes and other laws or regulations of the United States or of any state, municipality or other country having jurisdiction thereof.

6. No Stockholder Rights; Dividend Equivalents. Neither the Participant, nor any person entitled to receive payment in the event of the Participant's death, shall have any of the rights and privileges of a stockholder with respect to shares of Company Stock represented by Stock Units, including voting or dividend rights, until shares have been issued upon settlement of Stock Units. The Participant acknowledges that no election under Section 83(b) of the Code is available with respect to Stock Units. Notwithstanding the foregoing, the Committee may grant to the Participant Dividend Equivalents on the shares underlying the Stock Units prior to the Vesting Date, which shall be credited to the Stock Unit account for the Participant and will be paid or distributed in accordance with this Agreement, the Plan and the Program (where applicable).

7. Grant Subject to Plan and Program Provisions. This grant is made pursuant to the Plan, the terms of which are incorporated herein by reference, and in all respects shall be interpreted in accordance with the Plan. The grant and payment of the Stock Units are subject to the provisions of the Plan and the Program, to interpretations, regulations and determinations concerning the Plan and the Program established from time to time by the Committee in accordance with the provisions of the Plan and the Program, including, but not limited to, provisions pertaining to (a) rights and obligations with respect to withholding taxes, (b) the registration, qualification or listing of the shares of Company Stock, (c) changes in capitalization of the Company and (d) other requirements of applicable law. The Committee

shall have the authority to interpret and construe the Stock Units pursuant to the terms of the Plan and the Program, and its decisions shall be conclusive as to any questions arising hereunder.

8. No Service or Other Rights. The grant of the Stock Units shall not confer upon the Participant any right to be retained by or in the service of the Company and shall not interfere in any way with the right of the Company to terminate the Participant's service at any time.

9. Assignment and Transfers. Except as the Committee may otherwise permit pursuant to the Plan, the rights and interests of the Participant under this Agreement may not be sold, assigned, encumbered or otherwise transferred except, in the event of the death of the Participant, by will or by the laws of descent and distribution. In the event of any attempt by the Participant to alienate, assign, pledge, hypothecate, or otherwise dispose of the Stock Units or any right hereunder, except as provided for in this Agreement, or in the event of the levy or any attachment, execution or similar process upon the rights or interests hereby conferred, the Company may terminate the Stock Units by notice to the Participant, and the Stock Units and all rights hereunder shall thereupon become null and void. The rights and protections of the Company hereunder shall extend to any successors or assigns of the Company and to the Company's parents, subsidiaries, and affiliates. This Agreement may be assigned by the Company without the Participant's consent.

10. Applicable Law. The validity, construction, interpretation and effect of this Agreement shall be governed by and construed in accordance with the laws of the State of Delaware, without giving effect to the conflicts of laws provisions thereof.

11. Notice. Any notice to the Company provided for in this instrument shall be addressed to the Company in care of the General Counsel at the corporate headquarters of the Company, and any notice to the Participant shall be addressed to such Participant at the current address shown on the records of the Company. Any notice shall be delivered by hand or enclosed in a properly sealed envelope addressed as stated above, registered and deposited, postage prepaid, in a post office regularly maintained by the United States Postal Service or by the postal authority of the country in which the Participant resides or to an internationally recognized expedited mail courier.

12. Recoupment Policy. The Participant agrees that, subject to the requirements of applicable law, the Stock Units, and the right to receive and retain any Company Stock covered by this Agreement, shall be subject to rescission, cancellation or recoupment, in whole or part, if and to the extent so provided under any "clawback" or similar policy of the Company in effect on the Date of Grant or that may be established thereafter.

13. Application of Section 409A of the Code. This Agreement will in all respects be construed and administered in accordance with Section 409A of the Code. If the Stock Units constitute "deferred compensation" under Section 409A of the Code and the Stock Units become vested and settled upon the Participant's separation from service, payment with respect to the Stock Units shall be delayed for a period of six months after the Participant's separation from service if the Participant is a "specified employee" as defined under Section 409A of the Code at the time of such separation and if required pursuant to Section 409A of the Code. If payment is delayed, the Stock Units shall be settled and paid within thirty (30) days after the date that is six (6) months following the Participant's separation from service. Payments with respect to the Stock Units may only be paid in a manner and upon an event permitted by Section 409A of the Code, and each payment under the Stock Units shall be treated as a separate payment, and the right to a series of installment payments under the Stock Units shall be treated

as a right to a series of separate payments. In no event shall the Participant, directly or indirectly, designate the calendar year of payment, other than in accordance with the terms of a timely deferral election under the Program. The Company may change or modify the terms of this Agreement without the Participant's consent or signature if the Company determines, in its sole discretion, that such change or modification is necessary for purposes of compliance with or exemption from the requirements of Section 409A of the Code or any regulations or other guidance issued thereunder.

[Signature Page Follows]

IN WITNESS WHEREOF, the Company has caused its duly authorized officer to execute this Agreement, and the Participant has executed this Agreement, effective as of the Date of Grant.

23ANDME HOLDING CO.

Name:

Title:

I hereby accept the award of Stock Units described in this Agreement, and I agree to be bound by the terms of the Plan and this Agreement. I hereby agree that all decisions and determinations of the Committee with respect to the Stock Units shall be final and binding.

**23ANDME HOLDING CO. 2021 INCENTIVE EQUITY PLAN
RESTRICTED STOCK UNIT AGREEMENT**

This RESTRICTED STOCK UNIT AGREEMENT (the “Agreement”), dated as of [] (the “Date of Grant”), is delivered by 23andMe Holding Co. (the “Company”) to [] (the “Participant”).

RECITALS

The 23andMe Holding Co. 2021 Incentive Equity Plan (the “Plan”) provides for the grant of restricted stock units in accordance with the terms and conditions of the Plan. The Committee has decided to make this grant of restricted stock units as an inducement for the Participant to promote the best interests of the Company and its stockholders. This Agreement is made pursuant to the Plan and is subject in its entirety to all applicable provisions of the Plan. Capitalized terms used herein and not otherwise defined will have the meanings set forth in the Plan.

1. **Grant of Stock Units.** Subject to the terms and conditions set forth in this Agreement and in the Plan, the Company hereby grants the Participant [] restricted stock units, subject to the restrictions set forth below and in the Plan (the “Stock Units”). Each Stock Unit represents the right of the Participant to receive a share of Class A common stock of the Company (“Company Stock”), an amount of cash based on the value of a share of Company Stock, or any combination of the foregoing, as determined by the Committee, if and when the specified conditions are met in Section 3 below, and on the applicable payment date set forth in Section 5 below.

2. **Stock Unit Account.** Stock Units represent hypothetical shares of Company Stock, and not actual shares of stock. The Company shall establish and maintain a Stock Unit account, as a bookkeeping account on its records, for the Participant and shall record in such account the number of Stock Units granted to the Participant. No shares of Company Stock shall be issued to the Participant at the time the grant is made, and the Participant shall not be, and shall not have any of the rights or privileges of, a stockholder of the Company with respect to any Stock Units recorded in the Stock Unit account. The Participant shall not have any interest in any fund or specific assets of the Company by reason of this award or the Stock Unit account established for the Participant.

3. **Vesting.**

(a) Subject to the terms of this Section 3, the Stock Units shall become vested according to the following 25% after 1 year, then 1/16th per quarter, provided that the Participant continues to be employed by, or provide service to, the Company from the Date of Grant until the applicable Vesting Date. You can view your specific vesting details within your E*Trade account.

(b) The vesting of the Stock Units shall be cumulative, but shall not exceed 100% of the Stock Units. If the foregoing schedule would produce fractional Stock Units, the number of Stock Units that vest shall be rounded down to the nearest whole Stock Unit and the fractional Stock Units will be accumulated so that the resulting whole Stock Units will be included in the number of Stock Units that become vested on the last Vesting Date.

(c) In the event of a Change of Control before all of the Stock Units vest in accordance with Section 3(a) above, the provisions of the Plan applicable to a Change of Control shall apply to the Stock Units, and, in the event of a Change of Control, the Committee may take such actions with respect to the vesting of the Stock Units as it deems appropriate pursuant to the Plan.

4. Termination of Stock Units. If the Participant ceases to be employed by, or provide service to, the Company for any reason before all of the Stock Units vest, any unvested Stock Units shall automatically terminate and shall be forfeited as of the date of the Participant's termination of employment or service. No payment shall be made with respect to any unvested Stock Units that terminate as described in this Section 4.

5. Payment of Stock Units and Tax Withholding.

(a) If and when the Stock Units vest, the Company shall issue to the Participant one share of Company Stock for each vested Stock Unit, or an amount of cash equal to the value of a share of Company Stock for each vested Stock Unit, or a combination of the foregoing, subject to applicable tax withholding obligations. Subject to Sections 5(b) and 13 below, payment shall be made within 30 days after the applicable Vesting Date.

(b) All obligations of the Company under this Agreement shall be subject to the rights of the Company as set forth in the Plan to withhold amounts required to be withheld for any taxes, if applicable. At such time as the Committee may determine in its discretion under the Plan, at the time of payment in accordance with Section 5(a) above, or if applicable, at the time the Stock Units vest, the number of shares issued to the Participant shall be reduced by a number of shares of Company Stock with a Fair Market Value (measured as of the Vesting Date) equal to an amount of the FICA, federal income, state, local and other tax liabilities required by law to be withheld with respect to the payment of the Stock Units. To the extent not withheld in accordance with the immediately preceding sentence, the Participant shall be required to pay to the Company, or make other arrangements satisfactory to the Company to provide for the payment of, any federal, state, local or other taxes that the Company is required to withhold with respect to the Stock Units.

(c) The obligation of the Company to deliver Company Stock shall also be subject to the condition that if at any time the Committee shall determine in its discretion that the listing, registration or qualification of the shares upon any securities exchange or under any state or federal law, or the consent or approval of any governmental regulatory body is necessary or desirable as a condition of, or in connection with, the issuance of shares, the shares may not be issued in whole or in part unless such listing, registration, qualification, consent or approval shall have been effected or obtained free of any conditions not acceptable to the Committee. The issuance of shares, if any, to the Participant pursuant to this Agreement is subject to any applicable taxes and other laws or regulations of the United States or of any state, municipality or other country having jurisdiction thereof.

6. No Stockholder Rights; Dividend Equivalents. Neither the Participant, nor any person entitled to receive payment in the event of the Participant's death, shall have any of the rights and privileges of a stockholder with respect to shares of Company Stock, including voting or dividend rights, until certificates for shares have been issued upon payment of Stock Units. The Participant acknowledges that no election under Section 83(b) of the Code is available with respect to Stock Units. Notwithstanding the foregoing, the Committee may grant to the Participant Dividend

Equivalents on the shares underlying the Stock Units prior to the Vesting Date, which shall be credited to the Stock Unit account for the Participant and will be paid or distributed in accordance with this Agreement and the Plan.

7. Grant Subject to Plan Provisions. This grant is made pursuant to the Plan, the terms of which are incorporated herein by reference, and in all respects shall be interpreted in accordance with the Plan. The grant and payment of the Stock Units are subject to the provisions of the Plan and to interpretations, regulations and determinations concerning the Plan established from time to time by the Committee in accordance with the provisions of the Plan, including, but not limited to, provisions pertaining to (a) rights and obligations with respect to withholding taxes, (b) the registration, qualification or listing of the shares of Company Stock, (c) changes in capitalization of the Company and (d) other requirements of applicable law. The Committee shall have the authority to interpret and construe the Stock Units pursuant to the terms of the Plan, and its decisions shall be conclusive as to any questions arising hereunder.

8. No Employment or Other Rights. The grant of the Stock Units shall not confer upon the Participant any right to be retained by or in the employ or service of the Company and shall not interfere in any way with the right of the Company to terminate the Participant's employment or service at any time. The right of the Company to terminate at will the Participant's employment or service at any time for any reason is specifically reserved.

9. Assignment and Transfers. Except as the Committee may otherwise permit pursuant to the Plan, the rights and interests of the Participant under this Agreement may not be sold, assigned, encumbered or otherwise transferred except, in the event of the death of the Participant, by will or by the laws of descent and distribution. In the event of any attempt by the Participant to alienate, assign, pledge, hypothecate, or otherwise dispose of the Stock Units or any right hereunder, except as provided for in this Agreement, or in the event of the levy or any attachment, execution or similar process upon the rights or interests hereby conferred, the Company may terminate the Stock Units by notice to the Participant, and the Stock Units and all rights hereunder shall thereupon become null and void. The rights and protections of the Company hereunder shall extend to any successors or assigns of the Company and to the Company's parents, subsidiaries, and affiliates. This Agreement may be assigned by the Company without the Participant's consent.

10. Applicable Law. The validity, construction, interpretation and effect of this Agreement shall be governed by and construed in accordance with the laws of the State of Delaware, without giving effect to the conflicts of laws provisions thereof.

11. Notice. Any notice to the Company provided for in this instrument shall be addressed to the Company in care of the Chief Legal Officer at the corporate headquarters of the Company, and any notice to the Participant shall be addressed to such Participant at the current address shown on the payroll of the Company. Any notice shall be delivered by hand, or enclosed in a properly sealed envelope addressed as stated above, registered and deposited, postage prepaid, in a post office regularly maintained by the United States Postal Service or by the postal authority of the country in which the Participant resides or to an internationally recognized expedited mail courier.

12. Recoupment Policy. The Participant agrees that, subject to the requirements of applicable law, the Stock Units, and the right to receive and retain any Company Stock or cash payments covered by this Agreement, shall be subject to rescission, cancellation or recoupment, in whole or

part, if and to the extent so provided under any “clawback” or similar policy of the Company in effect on the Date of Grant or that may be established thereafter.

13. Application of Section 409A of the Code. This Agreement is intended to be exempt from Section 409A of the Code under the “short-term deferral” exception and to the extent this Agreement is subject to Section 409A of the Code, it will in all respects be administered in accordance with Section 409A. Notwithstanding the foregoing, if the Stock Units constitute “deferred compensation” under Section 409A of the Code and the Stock Units become vested and settled upon the Participant’s termination of employment, payment with respect to the Stock Units shall be delayed for a period of six months after the Participant’s termination of employment if the Participant is a “specified employee” as defined under Section 409A of the Code and if required pursuant to Section 409A of the Code. If payment is delayed, the Stock Units shall be settled and paid within thirty (30) days after the date that is six (6) months following the Participant’s termination of employment. Payments with respect to the Stock Units may only be paid in a manner and upon an event permitted by Section 409A of the Code, and each payment under the Stock Units shall be treated as a separate payment, and the right to a series of installment payments under the Stock Units shall be treated as a right to a series of separate payments. In no event shall the Participant, directly or indirectly, designate the calendar year of payment. The Company may change or modify the terms of this Agreement without the Participant’s consent or signature if the Company determines, in its sole discretion, that such change or modification is necessary for purposes of compliance with or exemption from the requirements of Section 409A of the Code or any regulations or other guidance issued thereunder.

[Signature Page Follows]

IN WITNESS WHEREOF, the Company has caused its duly authorized officer to execute this Agreement, and the Participant has executed this Agreement, effective as of the Date of Grant.

23ANDME HOLDING CO.

Name:
Title:

I hereby accept the award of Stock Units described in this Agreement, and I agree to be bound by the terms of the Plan and this Agreement. I hereby agree that all decisions and determinations of the Committee with respect to the Stock Units shall be final and binding.

23andMe Holding Co.

Subsidiaries of the Registrant as of March 31, 2023

<u>Name of Subsidiary</u>	<u>Jurisdiction of Incorporation or Organization</u>
23andMe, Inc.	Delaware
Lemonaid Health Inc.	Delaware
Lemonaid Health Limited	United Kingdom

Consent of Independent Registered Public Accounting Firm

We consent to the incorporation by reference in the registration statements (No. 333-257768) on Form S-1, (No. 333-269595) on Form S-3, and (Nos. 333-258910, 333-260867, 333-265626, and 333-270262) on Forms S-8 of our report dated May 25, 2023, with respect to the consolidated financial statements of 23andMe Holding Co. and the effectiveness of internal control over financial reporting.

/s/ KPMG LLP

Santa Clara, CA
May 25, 2023

**CERTIFICATION PURSUANT TO
RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934,
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Anne Wojcicki, certify that:

1. I have reviewed this Annual Report on Form 10-K for the fiscal year ended March 31, 2023 of 23andMe Holding Co.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - i. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - ii. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - iii. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - iv. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - i. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - ii. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 25, 2023

By: /s/ Anne Wojcicki

Anne Wojcicki
Chief Executive Officer
(Principal Executive Officer)

**CERTIFICATION PURSUANT TO
RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934,
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Joseph Selsavage, certify that:

1. I have reviewed this Annual Report on Form 10-K for the fiscal year ended March 31, 2023 of 23andMe Holding Co.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - i. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - ii. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - iii. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - iv. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - i. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - ii. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 25, 2023

By: /s/ Joseph Selsavage

Name: Joseph Selsavage
Interim Chief Financial and Accounting Officer
(Principal Financial and Accounting Officer)

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report of 23andMe Holding Co. (the "Company") on Form 10-K for the fiscal year ended March 31, 2023, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that, to the best of my knowledge:

1. The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
2. The information contained in the Report fairly presents, in all material respects, the financial condition and result of operations of the Company.

Date: May 25, 2025

By: /s/ Anne Wojcicki

Anne Wojcicki

Chief Executive Officer

(Principal Executive Officer)

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report of 23andMe Holding Co. (the "Company") on Form 10-K for the fiscal year ended March 31, 2023, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that, to the best of my knowledge:

1. The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
2. The information contained in the Report fairly presents, in all material respects, the financial condition and result of operations of the Company.

Date: May 25, 2023

By: /s/ Joseph Selsavage

Name: Joseph Selsavage

Interim Chief Financial and Accounting Officer

(Principal Financial and Accounting Officer)
