

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
 Washington, D.C. 20549

FORM S-3
REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933

MYRIAD GENETICS, INC.
 (Exact name of registrant as specified in its charter)

Delaware
 (State of Incorporation)

87-0494517
 (IRS Employer
 Identification No.)

320 Wakara Way
Salt Lake City, Utah 84108
801-584-3600
 (Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

Mark C. Capone
President and Chief Executive Officer
320 Wakara Way
Salt Lake City, Utah 84108
 (Name, address, including zip code, and telephone number, including area code, of agent for service)

With copies to:
Jonathan L. Kravetz, Esquire
Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C.
One Financial Center
Boston, Massachusetts 02111
(617) 542-6000

Approximate date of commencement of proposed sale to the public:
 From time to time after the effective date of this registration statement.

From time to time after the effective date of this registration statement as determined by the registrant.

If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box: ☐

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box: ☒

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. ☐

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. ☐

If this Form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box. ☒

If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box. ☐

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

Large accelerated filer ☒
 Non-accelerated filer ☐ (Do not check if a smaller reporting company)

Accelerated filer ☐
 Smaller reporting company ☐
 Emerging Growth Company ☐

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 7(a)(2)(B) of Securities Act. ☐

CALCULATION OF REGISTRATION FEE

Title of Each Class of Securities to be Registered	Amount to be Registered (1)	Proposed Maximum Offering Price per Unit (2)	Proposed Maximum Aggregate Offering Price (2)	Amount of Registration Fee
Common Stock, \$0.01 par value	2,994,251	\$42.33	\$126,748,141.96	\$15,780.14

- (1) Pursuant to Rule 416(a) of the Securities Act of 1933, as amended, this Registration Statement also covers any additional shares of the Registrant's common stock that become issuable by reason of any stock dividend, stock split, recapitalization or other similar transaction effected without receipt of consideration that increases the number of the Registrant's outstanding shares of common stock.
- (2) Estimated in accordance with Rule 457(c) solely for purposes of calculating the registration fee on the basis of the average of the high and low prices of the Registrant's common stock as reported on The Nasdaq Global Select Market on July 27, 2018.
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MYRIAD GENETICS, INC.

2,994,251 Shares

COMMON STOCK

The selling stockholders of Myriad Genetics, Inc. identified in this prospectus may offer and resell up to 2,994,251 shares of our common stock under this prospectus. The selling stockholders acquired these shares from us pursuant to an Agreement and Plan of Merger, dated as of May 25, 2018 (the “Merger Agreement”), by and among us, Cinnamon Merger Sub, Inc., Counsyl, Inc. (“Counsyl”) and Fortis Advisors LLC, as the Securityholders’ Representative, in connection with our acquisition of Counsyl. We will not receive any proceeds from the sale of these shares by the selling stockholders.

The selling stockholders may sell the shares of common stock described in this prospectus through public or private transactions at market prices prevailing at the time of sale or at negotiated prices. We provide more information about how the selling stockholders may sell their shares of common stock in the section of this prospectus captioned “Plan of Distribution.”

Our common stock is listed on the Nasdaq Global Select Market under the symbol “MYGN.” On July 31, 2018, the last reported sale price for our common stock was \$43.75 per share.

Investing in our securities involves a high degree of risk. Before making any investment in any of our securities, you should read and carefully consider the risks described in this prospectus under “Risk Factors” beginning on page 2 of this prospectus.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

This prospectus is dated August 1, 2018

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ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement on Form S-3 that we filed with the Securities and Exchange Commission, or the SEC, utilizing a “shelf” registration process. Under this shelf registration process, the selling stockholders may, from time to time, offer and sell shares of our common stock, as described in this prospectus, in one or more offerings.

You should rely only on the information contained in this prospectus (as supplemented and amended). We have not authorized anyone to provide you with information that is different from that contained in this prospectus (as supplemented and amended). We take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. This prospectus (as supplemented and amended) does not constitute an offer to sell or the solicitation of an offer to buy any securities other than the securities described in this prospectus or an offer to sell or the solicitation of an offer to buy any such securities in any circumstances in which such offer or solicitation is unlawful. This document may only be used where it is legal to sell these securities. You should not assume that the information contained in this prospectus (as supplemented and amended) is accurate as of any dates other than their respective dates.

We urge you to read carefully this prospectus (as supplemented and amended) before deciding whether to purchase any of the shares of common stock being offered.

Unless the context otherwise indicates, references in this prospectus to “Myriad,” “we,” “our” and “us” refer, collectively, to Myriad Genetics, Inc., a Delaware corporation, and its consolidated subsidiaries.

FORWARD-LOOKING STATEMENTS

This prospectus, any prospectus supplement, and the information incorporated by reference in this prospectus and any prospectus supplement include or may include “forward-looking statements” within the meaning of Section 27A of the Securities Act of 1933, as amended, or the Securities Act, and Section 21E of the Securities Exchange Act of 1934, as amended, or the Exchange Act. Forward-looking statements are generally written in the future tense and/or are preceded by words such as “will,” “may,” “should,” “could,” “expect,” “suggest,” “believe,” “anticipate,” “intend,” “plan,” or other similar words.

Forward-looking statements are not guarantees of future performance and involve risks and uncertainties. The forward-looking statements contained in this prospectus, any prospectus supplement, and the information incorporated by reference in this prospectus are based on information currently available to us and expectations and assumptions that we deem reasonable at the time the statements were made. We do not undertake any obligation to update any forward-looking statements in this prospectus, any prospectus supplement, and the information incorporated by reference in this prospectus or in any of our other communications, except as required by law. All such forward-looking statements should be read as of the time the statements were made and with the recognition that these forward-looking statements may not be complete or accurate at a later date.

Many factors may cause actual results to differ materially from those expressed or implied by the forward-looking statements contained in this prospectus, any prospectus supplement, and the information incorporated by reference herein and therein, including those detailed in the Risk Factors section of any Annual Report on Form 10-K and any Quarterly Report on Form 10-Q incorporated by reference in this prospectus and in the section of this prospectus or any related prospectus supplement entitled “Risk Factors.”

PROSPECTUS SUMMARY

This summary highlights selected information contained elsewhere in this prospectus. This summary does not contain all the information that you should consider before investing in our common stock. You should read the following summary together with the more detailed information regarding our company, the common stock being registered under this prospectus, and our financial statements and notes thereto incorporated by reference in this prospectus before deciding whether to purchase shares of our common stock from the selling stockholders.

Our Business

We are a leading personalized medicine company dedicated to being a trusted advisor transforming patient lives through pioneering molecular diagnostics. Through our proprietary technologies, we believe we are positioned to identify important disease genes, the proteins they produce, and the biological pathways in which they are involved to better understand the genetic basis of human disease and the role that genes and their related proteins may play in the disease process. We believe that identifying biomarkers (DNA, RNA and proteins) will enable us to develop novel molecular diagnostic tests that can provide important information to solve unmet medical needs that will provide better patient outcomes and reduce waste in the healthcare system.

We are a Delaware corporation. Our principal executive offices are located at 320 Wakara Way, Salt Lake City, Utah 84108. Our telephone number is (801) 584-3600. Our website is <http://www.myriad.com>. Our annual reports on Form 10-K, quarterly reports on Form 10-Q and current reports on Form 8-K, which have been filed with the SEC, are available to you free of charge through a hyperlink on our internet website. The information on our website or any other website is not incorporated by reference into this prospectus and does not constitute a part of this prospectus.

Myriad, the Myriad logo, BART, BRACAnalysis, Colaris, Colaris AP, myPath, myRisk, Myriad myRisk, myRisk Hereditary Cancer, myChoice, myPlan, BRACAnalysis CDx, Tumor BRACAnalysis CDx, myChoice HRD, EndoPredict, Vectra, GeneSight, riskScore and Prolaris are trademarks or registered trademarks of Myriad Genetics, Inc. or its wholly owned subsidiaries in the United States and foreign countries. This prospectus, any prospectus supplement and the documents incorporated by reference may contain trademarks of other companies.

The Offering

Common stock offered by the selling stockholders	2,994,251 shares
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Our common stock is listed on the Nasdaq Global Select Market under the symbol	MYGN
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Use of proceeds	All of the shares of common stock being offered under this prospectus are being sold by the selling stockholders. Accordingly, we will not receive any proceeds from the sale of these shares.
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Background

On July 31, 2018, pursuant to the terms of the Merger Agreement, Cinnamon Merger Sub, Inc. merged with and into Counsyl, with Counsyl as the surviving corporation and our wholly-owned subsidiary. Under the terms of the Merger Agreement, we agreed to file with the SEC a registration statement on Form S-3 covering the resale of the shares of common stock held by certain former holders of capital stock of Counsyl.

Throughout this prospectus, when we refer to the shares of our common stock, the offer and sale of which are being registered on behalf of the selling stockholders, we are referring to the shares of common stock held by certain former holders of securities of Counsyl that we agreed to register pursuant to the Merger Agreement.

RISK FACTORS

Investing in our common stock involves a high degree of risk. You should carefully consider the risks and uncertainties described below, together with all of the other information included in or incorporated by reference into this prospectus, before making an investment decision. The risks and uncertainties described below may not be the only ones we face. If any of the following risks actually occur, our business, financial condition, operating results, cash flows and prospects could be materially and adversely affected. In that event, the market price of our common stock could decline, and you could lose part or all of your investment.

Risks Related to our Business and Our Strategy

We may not be successful in transitioning from our existing product portfolio to our new products, such as our myRisk Hereditary Cancer test, which represents the next generation of our existing hereditary cancer franchise. We may not be able to generate sufficient revenue from our existing tests and our new tests or develop new tests to maintain profitability.

Although we have developed and marketed several molecular diagnostic tests to date, we believe our future success is dependent upon our ability to successfully market our existing molecular diagnostic tests to additional patients within the United States, to expand into new markets outside the United States, and to develop and commercialize new molecular diagnostic and companion diagnostic tests. Importantly, in 2014 we launched our myRisk Hereditary Cancer test, which represents the next generation of our existing hereditary cancer testing franchise. We anticipate that the myRisk Hereditary Cancer test will eventually replace our current predictive medicine test offerings (BRACAnalysis, BART, Colaris and Colaris AP and Melaris) with a single comprehensive test. However, we may not be successful in transitioning from our existing product portfolio to our new tests and in launching and commercializing our new tests. The demand for our existing molecular diagnostic tests may decrease or may not continue to increase at historical rates due to sales of the myRisk Hereditary Cancer test and our other new tests that are replacing our existing product portfolio, or for other reasons. For example, because most of our molecular diagnostic tests are only utilized once per patient, we will need to sell our services through physicians to new patients or develop new molecular diagnostic tests in order to continue to generate revenue. Our pipeline of new molecular diagnostic and companion diagnostic test candidates is in various stages of development and may take several more years to develop and must undergo extensive clinical validation. We may be unable to discover or develop any additional molecular diagnostic or companion diagnostic tests through the utilization of our technologies or technologies we license or acquire from others. Even if we develop tests or services for commercial use, we may not be able to develop tests or services that:

- meet applicable regulatory standards, in a timely manner or at all;
- successfully compete with other technologies and tests;
- avoid infringing the proprietary rights of others;
- are adequately reimbursed by third-party payors;
- can be performed at commercial levels or at reasonable cost; or
- can be successfully marketed.

We must generate significant revenue to maintain profitability. Even if we succeed in marketing myRisk Hereditary Cancer and our existing molecular diagnostic tests to physicians for use in new patients and in developing and commercializing any additional molecular diagnostic tests and companion diagnostic tests, we may not be able to generate sufficient revenue and we may not be able to maintain profitability.

We may not be able to sustain or increase profitability on a quarterly or annual basis.

In order to develop and commercialize our molecular diagnostic and companion diagnostic tests, we expect to incur significant expenses over the next several years as we increase our research and development activities, expand clinical validation trials for our molecular diagnostic tests and companion diagnostic tests currently in development, potentially license or acquire additional companies or technologies and engage in commercialization activities in anticipation of the launch of additional molecular diagnostic tests companion diagnostic tests. Because of the numerous risks and uncertainties associated with developing our tests and their potential for commercialization, we are unable to predict the extent of any future profits. If we are unable to sustain or increase profitability, the market value of our common stock will likely decline. Our ability to maintain profitability will depend upon numerous factors, including:

- our ability to transition from our existing product portfolio to our new products, such as our myRisk Hereditary Cancer test, and to commercialize these new tests;
- successful outcomes of clinical trials (including but not limited to the GeneSight clinical trial);
- our ability to obtain full or partial reimbursement for new products;

- our ability to sell our other existing molecular diagnostic tests to new patients;
- our ability to identify biomarkers that may lead to future molecular diagnostic tests and companion diagnostic tests;
- our ability to develop test candidates and receive any required regulatory approvals, including FDA approval as may be required for existing tests if LDTs become FDA regulated or for new tests such as myChoice HRD testing or a kit version of EndoPredict;
- our ability to successfully commercialize our tests in our existing markets and to extend into new markets outside the United States;
- the approval and introduction of competitive tests;
- reductions in reimbursement by third-party payors or their willingness to provide full or even partial reimbursement for our tests;
- our ability to maintain and enforce our intellectual property rights covering our molecular diagnostic tests and companion diagnostic tests;
- our ability to maintain and grow our sales force and marketing team to market our tests;
- our ability to successfully integrate, develop and grow products and services and the business of any other companies or technologies that we may license or acquire;
- our ability to increase commercial acceptance of our current molecular diagnostic tests; and
- our ability to maintain or grow our current revenues.

If we do not continue to generate sufficient revenue from sales of our molecular diagnostic tests and are unable to secure additional funding, we may have to reduce our operations.

As of June 30, 2017, we had \$199.2 million in cash, cash equivalents and marketable securities. For the fiscal year ended June 30, 2017 our consolidated revenues were \$771.4 million, and net cash from operating activities was \$106.2 million. To develop and bring new molecular diagnostic tests and companion diagnostic tests to market, we must commit substantial resources to costly and time-consuming research, development testing and clinical testing. In addition, we amended our unsecured revolving debt facility (the “Facility”) on July 31, 2018, providing for an aggregate principle amount of up to \$350.0 million. Pursuant to the Facility, we borrowed an aggregate principal amount of \$300.00 million on July 31, 2018. The Facility is due on July 31, 2023.

While we anticipate that our existing cash, cash equivalents and marketable securities and expected net cash to be generated from sales of our molecular diagnostic tests and pharmaceutical and clinical services will be sufficient to fund our current operations for the foreseeable future, changes could occur that would consume available capital resources more quickly than we currently expect and we may need or want to raise additional financing. If we are unable to secure additional funding, we may be unable to repay our Facility when it becomes due, and be required to reduce research and development projects, limit sales and marketing activities, scale back our expansion efforts outside the United States, reduce headcount or potentially even discontinue operations. Our future capital requirements will depend on many factors that are currently unknown to us, including:

- the scope, progress, results and cost of development, clinical testing and pre-market studies of any new molecular diagnostic tests that we may discover or acquire;
- the progress, results, and costs to develop additional molecular diagnostic tests;
- the costs of preparing, filing and prosecuting patent applications, maintaining and enforcing our current issued patents, and defending intellectual property-related claims;
- our ability to enter into collaborations, licensing or other arrangements favorable to us;
- the costs of acquiring technologies or businesses, and our ability to successfully integrate and achieve the expected benefits of our business development activities and acquisitions;
- the progress, cost and results of our international expansion efforts;
- the costs of expanding our sales and marketing functions and commercial operation facilities in the United States and in new markets;
- the costs, timing and outcome of any litigation against us; and
- the costs to satisfy our current and future obligations.

We are subject to debt covenants that impose operating and financial restrictions on us and could limit our ability to grow our business.

Covenants in the Facility, which went into effect during the quarter ending March 31, 2017, impose operating and financial restrictions on the Company. These restrictions may prohibit or place limitations on, among other things, the Company's ability to incur additional indebtedness, create certain types of liens, mergers or consolidations, and/or change in control transactions. The Facility may also prohibit or place limitations on the Company's ability to sell assets, pay dividends or provide other distributions to shareholders. These restrictions could also limit our ability to take advantage of business opportunities. The Company must maintain a specified leverage and interest ratios measured as of the end of each quarter as a financial covenant in the Facility. Our ability to comply with this ratio may be affected by events beyond our control, including prevailing economic, financial and industry conditions.

Under the Facility, a change in control in our Company, which means that a shareholder or a group of shareholders is or becomes the beneficial owner, directly or indirectly, of more than 35% of the total voting power of the voting stock of the Company would require mandatory prepayment of the outstanding debt.

If we are unable to comply with the covenants and ratio in the Facility in the future, we may be in default under the agreement. A default would result in an increase in the rate of interest and may cause the loan repayment to be accelerated. This could have a material adverse effect on our business.

We may acquire technologies, assets or other businesses that could cause us to incur significant expense and expose us to a number of unanticipated operational and financial risks.

In addition to organic growth, we intend to continue to pursue growth through the acquisition of technology, assets or other businesses that may enable us to enhance our technologies and capabilities, expand our geographic market, add experienced management personnel and increase our test offerings. For example, in May 2011, we completed the acquisition of Rules Based Medicine, Inc., which we renamed Myriad RBM, and are now offering pharmaceutical and clinical services and developing additional product candidates using the acquired technology. In February 2014, we completed the acquisition of Crescendo Bioscience, Inc., and are now offering molecular diagnostic tests for patients suffering from rheumatoid arthritis and developing additional product candidates in the inflammatory and autoimmune disease area. In February 2015, we acquired the Clinic and believe the acquisition may facilitate our penetration into the German molecular diagnostic market. In May 2016, we acquired Sividon Diagnostics GmbH. Now as a wholly-owned subsidiary, Sividon will continue to offer EndoPredict testing in the European market, which we offered under an exclusive distribution agreement with Sividon prior to the acquisition. Additionally, in August 2016, we acquired Assurex Health, Inc. and are now offering a molecular diagnostic test providing treatment decision support to healthcare providers for mental health patients. However, these acquisitions may not achieve profitability or generate a positive return on our investment. Additionally, we may be unable to implement our growth strategy if we cannot identify suitable acquisition candidates, reach agreement on potential acquisitions on acceptable terms, successfully integrate personnel or assets that we acquire or for other reasons. Our acquisition efforts may involve certain risks, including:

- we may have difficulty integrating operations and systems;
- key personnel and customers of the acquired company may terminate their relationships with the acquired company as a result of the acquisition;
- we may not be successful in launching new molecular diagnostic tests or companion diagnostic tests, or if those tests are launched they may not prove successful in the market place;
- we may experience additional financial and accounting challenges and complexities in areas such as tax planning and financial reporting;
- we may assume or be held liable for risks and liabilities, including for environmental-related costs, as a result of our acquisitions, some of which we may not discover during our due diligence;
- we may incur significant additional operating expenses;
- our ongoing business may be disrupted or receive insufficient management attention; and
- we may not be able to realize synergies, the cost savings or other financial and operational benefits we anticipated, or such synergies, savings or benefits may take longer than we expected.

The process of negotiating acquisitions and integrating acquired tests, services, technologies, personnel or businesses might result in operating difficulties and expenditures and might require significant management attention that would otherwise be available for ongoing development of our business, whether or not any such transaction is ever consummated. Moreover, we might never realize the anticipated benefits of any acquisition. Future acquisitions could result in the use of our available cash and marketable securities, potentially dilutive issuances of equity securities, the incurrence of debt, contingent liabilities, or impairment expenses related to goodwill, and impairment or amortization expenses related to other intangible assets, which could harm our financial condition. In addition, if we are unable to integrate any acquired businesses, tests or technologies effectively, our business, financial condition and results of operations may be materially adversely affected.

We may not be able to successfully integrate the operations of businesses that we acquire with our own or realize the anticipated benefits of the acquisitions, which could adversely affect our financial condition, results of operations and business prospects.

There can be no assurance that we will be able to successfully integrate our recent acquisitions or develop or commercialize products based on recently acquired technologies, or that we will be able to successfully integrate any other companies, products or technologies that we acquire and may not realize all or any of the expected benefits of any acquisitions as and when planned. Additionally, we may experience increased expenses, distraction of our management, personnel and customer uncertainty.

The difficulties and risks associated with the integration of any other businesses that we may acquire include:

- possible inconsistencies in the standards, controls, procedures, policies and compensation structures;
- the increased scope and complexity of the acquired company's operations;
- the potential loss of key employees and the costs associated to retain key employees;
- risks and limitations on our ability to consolidate corporate and administrative infrastructures of the two companies; and
- the possibility of unanticipated delays, costs or inefficiencies associated with the integration of our operations with the operations of any other companies that we may acquire.

As a result of these difficulties and risks, we may not accomplish the integration of the business of any companies we may acquire smoothly, successfully or within our budgetary expectations and anticipated timetable. Accordingly, we may fail to realize some or all of the anticipated benefits of the acquisition, such as increase in our scale, diversification, cash flows and operational efficiency and meaningful accretion to our diluted earnings per share.

If we were successfully sued for product liability, we could face substantial liabilities that exceed our resources.

Our business exposes us to potential liability risks inherent in the testing, marketing and processing of molecular diagnostic products, including possible misdiagnoses. Although we are insured against such risks in amounts that we believe to be commercially reasonable, our present professional and product liability insurance may be inadequate. A successful product liability claim in excess of our insurance coverage could have a material adverse effect on our business. Any successful product liability claim may prevent us from obtaining adequate product liability insurance in the future on commercially desirable or reasonable terms. An inability to obtain sufficient insurance coverage at an acceptable cost or otherwise to protect against potential product liability claims could prevent or inhibit the commercialization of our products.

We are dependent on our information technology and telecommunications systems, and any failure of these systems could harm our business.

We depend on information technology, or IT, and telecommunications systems for significant aspects of our business. These IT and telecommunications systems support a variety of functions, including sample processing, tracking, quality control, customer service and support, billing, research and development activities, and various general and administrative activities. Failures or significant downtime of our IT or telecommunications systems could prevent us from processing samples, providing test results to physicians, billing payors, addressing patient or physician inquiries, conducting research and development activities and conducting general and administrative elements of our business. Any disruption or loss of IT or telecommunications systems on which critical aspects of our operations depend could have an adverse effect on our business, financial condition and results of operations.

Security breaches, loss of data and other disruptions could compromise sensitive information related to our business, prevent us from accessing critical information or expose us to liability, which could adversely affect our business and our reputation.

In the ordinary course of our business, we collect and store sensitive data, including legally protected patient health information, credit card information, personally identifiable information about our employees, intellectual property, and proprietary business information. We manage and maintain our applications and data utilizing on-site systems. These applications and data encompass a wide variety of business critical information including research and development information, commercial information and business and financial information.

The secure processing, storage, maintenance and transmission of this critical information is vital to our operations and business strategy, and we devote significant resources to protecting such information. Although we take measures to protect sensitive information from unauthorized access or disclosure, our information technology and infrastructure may be vulnerable to attacks by hackers, or viruses, breaches or interruptions due to employee error, malfeasance or other disruptions, or lapses in compliance with privacy and security mandates. Any such virus, breach or interruption could compromise our networks and the information stored there could be accessed by unauthorized parties, publicly disclosed, lost or stolen. We have measures in place that are designed prevent, and if necessary to detect and respond to such security incidents and breaches of privacy and security mandates. While we have experienced unauthorized

accesses to our information technology systems and infrastructure in the past, which may occur again in the future, our security measures have been able to detect, respond to and prevent any material adverse effect to our information systems and business operations from such breaches. However, in the future, any such access, disclosure or other loss of information could result in legal claims or proceedings, liability under laws that protect the privacy of personal information, such as HIPAA, government enforcement actions and regulatory penalties. Unauthorized access, loss or dissemination could also disrupt our operations, including our ability to process samples, provide test results, bill payors or patients, provide customer support services, conduct research and development activities, process and prepare company financial information, manage various general and administrative aspects of our business and may damage our reputation, any of which could adversely affect our business, financial condition and results of operations.

If our current operating plan changes and we find that our existing capital resources will not meet our needs, we may find it necessary to raise additional funding, which may not be available.

We anticipate that our existing capital resources and expected net cash to be generated from sales of our molecular diagnostic tests will enable us to maintain our currently planned operations for the foreseeable future. However, we base this expectation on our current operating plan, which may change. We have incurred, and will continue to incur, significant costs in the discovery, development and marketing of current and prospective molecular diagnostic and companion diagnostic tests. Our ongoing efforts to develop tests and expand our business which may be through internally developed products, in licensing and mergers and acquisitions will require substantial cash resources. If, due to changes in our current operating plan, adequate funds are not available, we may be required to raise additional funds. Sources of potential additional capital resources may include, but are not limited to, public or private equity financings, establishing a credit facility, or selling convertible or non-convertible debt securities. This additional funding, if necessary, may not be available to us on reasonable terms, or at all. If we issue shares of stock or other securities to acquire new companies or technologies, the ownership interests of our existing stockholders may be significantly diluted.

Because of our potential long-term capital requirements, we may access the public or private equity or debt markets whenever conditions are favorable, even if we do not have an immediate need for additional capital at that time. Under SEC rules, we currently qualify as a well-known seasoned issuer, or WKSI, and can at any time file a registration statement registering securities to be sold to the public which would become effective upon filing. If additional funds are raised by issuing equity securities, existing shareholders may suffer significant dilution. Debt financing, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring debt, making capital expenditures or declaring dividends. If we raise additional funds through collaborations, strategic alliances and licensing arrangements with third parties, we may have to relinquish valuable rights to our technologies or tests, or grant licenses on terms that are not favorable to us.

Our business involves environmental risks that may result in liability for us.

In connection with our research and development activities, we are subject to federal, state and local laws, rules, regulations and policies governing the use, generation, manufacture, storage, air emission, effluent discharge, handling and disposal of certain materials, biological specimens, chemicals and wastes. Although we believe that we have complied with the applicable laws, regulations and policies in all material respects and have not been required to correct any material noncompliance, we may be required to incur significant costs to comply with environmental and health and safety regulations in the future. Although we believe that our safety procedures for handling and disposing of controlled materials comply with the standards prescribed by state and federal regulations, accidental contamination or injury from these materials may occur. In the event of such an occurrence, we could be held liable for any damages that result and any such liability could exceed our resources.

Changes in health care policy could increase our costs, decrease our revenues and impact sales of and reimbursement for our tests.

In March 2010, the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Affordability Reconciliation Act, or the ACA became law. This law substantially changed the way health care is financed by both governmental and private insurers, and significantly impacts our industry. The ACA contains a number of provisions that are expected to impact our business and operations, some of which in ways we cannot currently predict, including those governing enrollment in state and federal health care programs, reimbursement changes and fraud and abuse, which will impact existing state and federal health care programs and will result in the development of new programs. The Trump administration supports a repeal of the ACA and an Executive Order was signed commanding federal agencies to try to waive or delay requirements of the ACA that impose economic or regulatory burdens on states, families, the health-care industry and others. The Executive Order also declares that the administration will seek the “prompt repeal” of the law and that the government should prepare to “afford the States more flexibility and control to create a more free and open healthcare market.” In addition, following the passage of the budget resolution for fiscal year 2017, the U.S. House of Representatives passed legislation known as the American Health Care Act, which, if enacted, would amend or repeal significant portions of the ACA. Although it seems unlikely, the U.S. Senate could adopt the American Health Care Act as passed by the U.S. House of Representatives or other legislation to amend or replace elements of the ACA. It is uncertain whether the American Health Care Act will become law. At this time, the immediate impact of the Executive Order is not clear, and we cannot know how any legislation that may be passed to amend or replace the ACA will impact our business in the United States.

In addition to the ACA, there will continue to be proposals by legislators at both the federal and state levels, regulators and private third-party payors to reduce costs while expanding individual healthcare benefits. Certain of these changes could impose additional limitations on the prices we will be able to charge for our tests or the amounts of reimbursement available for our tests from governmental agencies or private third-party payors.

We face risks associated with currency exchange rate fluctuations, which could adversely affect our operating results.

We receive a portion of our revenues and pay a portion of our expenses in currencies other than the United States dollar, such as the Euro, the Swiss franc, the British pound, the Australian dollar and the Canadian dollar. As a result, we are at risk for exchange rate fluctuations between such foreign currencies and the United States dollar, which could affect the results of our operations. If the U.S. dollar strengthens against foreign currencies, the translation of these foreign currency denominated transactions will result in decreased revenues and operating expenses. We may not be able to offset adverse foreign currency impact with increased revenues. We do not currently utilize hedging strategies to mitigate foreign currency risk and even if we were to implement hedging strategies to mitigate foreign currency risk, these strategies might not eliminate our exposure to foreign exchange rate fluctuations and would involve costs and risks of their own, such as ongoing management time and expertise, external costs to implement the strategies and potential accounting implications.

Risks Related to Commercialization of Our Tests, Our Services and Test Candidates

We generate most of our revenues from three products and we may not be able to maintain revenue growth and profitability.

We may not be able to generate revenue growth or maintain existing revenue levels. Presently, our molecular diagnostic business operates profitably providing a cash contribution to our current funding and operational needs. We may not, however, be able to continue to operate our molecular diagnostic business on a profitable basis. We launched our first molecular diagnostic test, BRACAnalysis, our test for hereditary breast and ovarian cancer, in November 1996. BRACAnalysis test sales accounted for approximately 9% of our revenues for the year ended June 30, 2017, and this percentage has been declining in recent years as we transition to our myRisk Hereditary Cancer test. An interruption or cessation of BRACAnalysis sample flow would have a material impact on our revenues and future profitability. In 2014 we launched our myRisk Hereditary Cancer test, which represents the next generation of our existing hereditary cancer franchise. We may not be successful in transitioning from our existing product portfolio to our new products, such as myRisk Hereditary Cancer Test, and in commercializing these tests over time. Other potential events or factors that may have a significant impact on our ability to sustain revenue growth and profitability for our molecular diagnostic business include the following:

- increased costs of reagents and other consumables required for molecular diagnostic testing;
- increased personnel and facility costs;
- our inability to hire competent, trained staff, including laboratory directors required to review and approve all reports we issue in our molecular diagnostic business, and sales personnel;
- our inability to obtain necessary equipment or reagents to perform molecular diagnostic testing;
- our inability to increase production capacity as demand increases;
- our inability to expand into new markets outside the United States;
- the efforts of third party payors to limit or decrease the amounts that they are willing to pay for our tests;
- increased licensing or royalty costs, and our ability to maintain and enforce the intellectual property rights underlying our tests and services;
- changes in intellectual propriety law applicable to our patents or enforcement in the United States and foreign countries;
- potential obsolescence of our tests;
- our inability to increase commercial acceptance of our molecular diagnostic tests;
- increased competition and loss of market share; and
- increased regulatory requirements.

Our international business exposes us to business, regulatory, political, operational, financial and economic risks associated with doing business outside of the United States.

As part of our business strategy, we have expanded into international markets. We have established sales offices in Germany, Switzerland, France, Spain, the United Kingdom, Italy, Canada and Australia; laboratory operations in Germany; and international headquarters in Switzerland. We may establish additional operations or acquire additional properties outside the United States in order to advance our international sales doing business internationally involves a number of risks, including:

- failure by us to obtain regulatory approvals or adequate reimbursement for the use of our tests in various countries;
- difficulty in staffing and managing foreign operations;
- managing multiple payor reimbursement and self-pay systems;
- logistics and regulations associated with shipping patient samples, including infrastructure conditions and transportation delays;
- limits in our ability to penetrate international markets if we are not able to process tests locally;
- financial risks, such as longer payment cycles, difficulty collecting accounts receivable and exposure to foreign currency exchange rate fluctuations;
- political and economic instability, including wars, terrorism, and political unrest, outbreak of disease, boycotts, curtailment of trade and other business restrictions;
- multiple, conflicting and changing laws and regulations such as tax laws, export and import restrictions, employment laws, data and privacy laws, regulatory requirements and other governmental approvals, permits and licenses; and
- regulatory and compliance risks that relate to maintaining accurate information and control over sales and distributors' activities that may fall within the purview of the U.S. Foreign Corrupt Practice Act, anti-boycott and other laws.

Any of these factors could significantly harm our international operations and, consequently, our revenues and results of operations. In addition, any failure to comply with applicable legal and regulatory obligations could impact us in a variety of ways that include, but are not limited to, significant criminal, civil and administrative penalties, including imprisonment of individuals, fines and penalties, denial of export privileges, seizure of shipments, and restrictions on certain business activities. Also, the failure to comply with applicable legal and regulatory obligations could result in the disruption of our distribution and sales activities.

Our international operations could be affected by changes in laws, trade regulations, labor and employment regulations, and procedures and actions affecting approval, production, pricing, reimbursement and marketing of tests, as well as by inter-governmental disputes. Any of these changes could adversely affect our business.

Our success internationally will depend, in part, on our ability to develop and implement policies and strategies that are effective in anticipating and managing these and other risks in the countries in which we do business. Failure to manage these and other risks may have a material adverse effect on our operations in any particular country and on our business as a whole.

Foreign governments may impose reimbursement standards, which may adversely affect our future profitability.

We market our tests in foreign jurisdictions and as such may be subject to rules and regulations in those jurisdictions relating to our testing. In some foreign countries, including countries in the European Union, the reimbursement of diagnostic tests is subject to governmental control. In these countries, reimbursement negotiations with governmental authorities can take considerable time after the receipt of marketing approval for a test candidate. If reimbursement of our future tests is unavailable or limited in scope or amount, or if reimbursement rates are set at unsatisfactory levels, we may be unable to achieve or sustain profitability.

We may experience increased price competition and price erosion.

We may experience pricing pressures from managed care organizations and other private third-party payors in the future. Any declines in average selling prices of our products due to pricing pressures may have an adverse impact on our business, results of operations and financial condition.

Our pharmaceutical testing services customers may reduce the amount of testing they conduct through us.

If there is a change in the regulatory environment or intellectual property law, or our pharmaceutical testing services customers consolidate, our customers may divert resources from testing, resulting in a reduced demand for our laboratory testing services. Alternatively, customers may decide to perform their own laboratory testing services in-house.

We rely on a single laboratory facility to process each of our molecular diagnostic tests in the United States and Europe and a single laboratory facility to perform our pharmaceutical and clinical services. Failure to maintain the operations of these laboratories in compliance with applicable regulations would seriously harm our business.

We rely on a CLIA-certified and FDA approved laboratory facility in Salt Lake City, Utah to perform most of our molecular diagnostic tests; a CLIA-certified laboratory in South San Francisco, California to perform our VectraDA test; a single laboratory facility in Munich, Germany to perform our international molecular diagnostic tests; a CLIA-certified lab in Mason, Ohio to perform our GeneSight test; and a CLIA-certified laboratory facility in Austin, Texas to perform our pharmaceutical and clinical testing services. These facilities and certain pieces of laboratory equipment would be difficult to replace and may require significant replacement lead-time. In the event our clinical testing facilities were to lose their CLIA certification or other required certifications or licenses or were affected by a man-made or natural disaster, we would be unable to continue our molecular diagnostic and pharmaceutical and clinical services business at current levels to meet customer demands for a significant period of time. Although we maintain insurance on these facilities, including business interruption insurance, it may not be adequate to protect us from all potential losses if these facilities were damaged or destroyed. In addition, any interruption in our molecular diagnostic or pharmaceutical and clinical services business would result in a loss of goodwill, including damage to our reputation. If our molecular diagnostic or pharmaceutical and clinical services business were interrupted, it would seriously harm our business.

We depend on a limited number of third parties for some of our supplies of equipment and reagents. If these supplies become unavailable, then we may not be able to successfully perform our research or operate our business on a timely basis or at all.

We currently rely on a small number of suppliers to provide our gene sequencing equipment, content enrichment equipment, multiplex protein analysis equipment, robots, and specialty reagents and laboratory supplies required in connection with our testing and research. We believe that currently there are limited alternative suppliers of these equipment, robots, and reagents. The equipment, robots, or the reagents may not remain available in commercial quantities at acceptable costs. If we are unable to obtain when needed additional or alternative equipment, robots, or an adequate supply of reagents or other ingredients at commercially reasonable rates, our ability to continue to identify genes and perform molecular diagnostic testing and pharmaceutical and clinical services would be adversely affected.

Our molecular diagnostic and companion diagnostic tests in development may never achieve significant commercial market acceptance.

We may not succeed in achieving significant commercial market acceptance of our diagnostic test and clinical service offerings that we have launched in recent years or are currently developing. Our ability to successfully develop and commercialize our current molecular diagnostic and companion diagnostic tests, as well as any future molecular diagnostic and companion diagnostic tests that we may develop, will depend on several factors, including:

- our ability to convince the medical community of the clinical utility of our tests and their potential advantages over existing tests;
- our ability to collaborate with biotechnology and pharmaceutical companies to develop and commercialize companion diagnostic tests for their therapeutic drugs and drug candidates;
- the agreement by third-party payors to reimburse our tests, the scope and extent of which will affect patients' willingness or ability to pay for our tests and will likely heavily influence physicians' decisions to recommend our tests; and
- the willingness of physicians to utilize our tests, which can be difficult to interpret. This difficulty is caused by the ability of our tests to predict only as to a probability, not certainty, that a tested individual will develop, have the disease, benefit from a particular therapy or has an aggressive form of the disease that the test is intended to predict.

These factors present obstacles to commercial acceptance of our tests, which we would have to spend substantial time and money to overcome, if we can do so at all. Our inability to successfully do so would harm our business.

If we do not compete effectively with scientific and commercial competitors, we may not be able to successfully commercialize our tests.

The clinical laboratory and genetics testing fields are intense and highly competitive. Tests that are developed are characterized by rapid technological change. Our competitors in the United States and abroad are numerous and include, among others, major diagnostic companies, reference laboratories, molecular diagnostic firms, universities and other research institutions. Some of our potential competitors have considerably greater financial, technical, marketing and other resources than we do, which may allow these competitors to discover important genes and determine their function before we do. We could be adversely affected if we do not discover genes, proteins or biomarkers and characterize their function, develop molecular diagnostic and pharmaceutical and clinical services based on these discoveries, obtain required regulatory and other approvals and launch these tests and their related services before our competitors. We also expect to encounter significant competition with respect to any molecular diagnostic and companion diagnostic tests that we

may develop or commercialize. Those companies that bring to market new molecular diagnostic and companion tests before we do may achieve a significant competitive advantage in marketing and commercializing their tests. We may not be able to develop additional molecular diagnostic tests successfully and we or our licensors may not obtain or enforce patents covering these tests that provide protection against our competitors. Moreover, our competitors may succeed in developing molecular diagnostic and companion diagnostic tests that circumvent our technologies or tests. Furthermore, our competitors may succeed in developing technologies or tests that are more effective or less costly than those developed by us or that would render our technologies or tests less competitive or obsolete. We expect competition to intensify in the fields in which we are involved as technical advances in these fields occur and become more widely known and changes in intellectual property laws generate challenges to our intellectual property position.

If our current research collaborators or scientific advisors terminate their relationships with us or develop relationships with a competitor, our ability to discover genes, proteins, and biomarkers, and to validate and commercialize molecular diagnostic and companion diagnostic tests could be adversely affected.

We have relationships with research collaborators at academic and other institutions who conduct research at our request. These research collaborators are not our employees. As a result, we have limited control over their activities and, except as otherwise required by our collaboration agreements, can expect only limited amounts of their time to be dedicated to our activities. Our ability to discover genes, proteins, and biomarkers involved in human disease and validate and commercialize molecular diagnostic and companion diagnostic tests will depend in part on the continuation of these collaborations. If any of these collaborations are terminated, we may not be able to enter into other acceptable collaborations. In addition, our existing collaborations may not be successful.

Our research collaborators and scientific advisors may have relationships with other commercial entities, some of which could compete with us. Our research collaborators and scientific advisors sign agreements which provide for the confidentiality of our proprietary information and the results of studies conducted at our request. We may not, however, be able to maintain the confidentiality of our technology and other confidential information related to all collaborations. The dissemination of our confidential information could have a material adverse effect on our business.

If we fail to retain our key personnel and hire, train and retain qualified employees and consultants, we may not be able to successfully continue our business.

Because of the specialized scientific nature of our business, we are highly dependent upon our ability to attract and retain qualified management, scientific and technical personnel. We are currently recruiting additional qualified management, scientific and technical personnel. Competition for such personnel is intense. Loss of the services of or failure to recruit additional key management, scientific and technical personnel would adversely affect our research and development programs and molecular diagnostic and pharmaceutical and clinical services business and may have a material adverse effect on our business as a whole.

Our agreements with our employees generally provide for employment that can be terminated by either party without cause at any time, subject to specified notice requirements. Further, the non-competition provision to which each employee is subject expires for certain key employees on the applicable date of termination of employment.

As we expand our commercial tests we may be required to incur significant costs and devote significant efforts to expand our existing tests sales and marketing capabilities.

Our sales and marketing experience and capabilities consist primarily of our sales force that markets our molecular diagnostic tests to oncologists, obstetricians, gynecologists, urologists, dermatopathologists and rheumatologists in the United States. We are currently expanding our sales efforts outside the United States, which will require us to hire additional personnel and engage in additional sales and marketing efforts. We have limited sales and marketing experience outside the United States. As we expand our business operations internationally, we expect to face a number of additional costs and risks, including the need to recruit a large number of additional experienced marketing and sales personnel.

Risks Related to Our Intellectual Property

If we are not able to protect our proprietary technology, others could compete against us more directly, which would harm our business.

As of June 30, 2017, our patent portfolio included issued patents owned or licensed by us and numerous patent applications in the United States and other countries with claims protecting our intellectual property rights. Our commercial success will depend, in part, on our ability to obtain additional patents and licenses and protect our existing patent position, both in the United States and in other countries, for compositions, processes, methods and other inventions that we believe are patentable. Our ability to preserve our trade secrets, proprietary data bases and other intellectual property is also important to our long-term success. If our intellectual property is not adequately protected, competitors may be able to use our technologies and erode or negate any competitive advantage we may have, which could harm our business and ability to maintain profitability. Patents may also issue to third parties which could interfere with our ability to bring our molecular diagnostic tests to market. The laws of some foreign countries do not protect our proprietary rights to the same extent as U.S. laws, and we may encounter significant problems in protecting our proprietary rights in these countries.

The patent positions of diagnostic companies, including our patent position, are generally highly uncertain and involve complex legal and factual questions, and, therefore, any patents issued to us may be challenged, deemed unenforceable, invalidated or circumvented. We will be able to protect our proprietary rights from unauthorized use by third parties only to the extent that our proprietary technologies and any future tests are covered by valid and enforceable patents or are effectively maintained as trade secrets. Our patent applications may never issue as patents, and the claims of any issued patents may not afford meaningful protection for our technology or tests. In addition, any patents issued to us or our licensors may be challenged, and subsequently narrowed, invalidated or circumvented.

Where necessary, we may initiate litigation to enforce our patent or other intellectual property rights. Any such litigation may require us to spend a substantial amount of time and money and could distract management from our day-to-day operations. Moreover, there is no assurance that we will be successful in any such litigation.

The degree of future protection for our proprietary rights is uncertain, and we cannot ensure that:

- we or our licensors were the first to make the inventions covered by each of our patent applications;
- we or our licensors were the first to file patent applications for these inventions;
- others will not independently develop similar or alternative technologies or duplicate any of our technologies;
- any of our or our licensors' patent applications will result in issued patents;
- any of our or our licensors' patents will be valid or enforceable;
- any patents issued to us or our licensors and collaborators will provide a basis for commercially viable tests, will provide us with any competitive advantages or will not be challenged by third parties;
- we will develop additional proprietary technologies or tests that are patentable;
- the patents of others will not have an adverse effect on our business; or
- our patents or patents that we license from others will survive legal challenges, and remain valid and enforceable.

If a third party files a patent application with claims to subject matter we have invented, the PTO may declare interference between competing patent applications. If an interference is declared, we may not prevail in the interference. If the other party prevails in the interference, we may be precluded from commercializing services or tests based on the invention or may be required to seek a license. A license may not be available to us on commercially acceptable terms, if at all.

We also rely upon unpatented proprietary technologies and databases. Although we require employees, consultants and collaborators to sign confidentiality agreements, we may not be able to adequately protect our rights in such unpatented proprietary technologies and databases, which could have a material adverse effect on our business. For example, others may independently develop substantially equivalent proprietary information or techniques or otherwise gain access to our proprietary technologies or disclose our technologies to our competitors.

If we were sued for patent infringement by third parties, we might incur significant costs and delays in test introduction.

Our tests may also conflict with patents that have been or may be granted to others. Our industry includes many organizations that have or are seeking to discern biomarkers and develop genomic, proteomic and other technologies. To the extent any patents are issued or have been issued to those organizations, the risk increases that the sale of our molecular diagnostic and companion diagnostic tests currently being marketed or under development may give rise to claims of patent infringement. Others may have filed and in the future are likely to file patent applications covering biomarkers that are similar or identical to our tests. Any of these patent applications may have priority over our patent applications and these entities or persons could bring legal proceedings against us seeking damages or seeking to enjoin us from testing or marketing our tests. Patent litigation is costly, and even if we prevail, the cost of such litigation could have a material adverse effect on us. If the other parties in any such actions are successful, in addition to any liability for damages, we could be required to cease the infringing activity or obtain a license. Any license required may not be available to us on commercially acceptable terms, if at all. Our failure to obtain a license to any technology that we may require to commercialize our tests could have a material adverse effect on our business. We believe that there may be significant litigation in the industry regarding patent and other intellectual property rights. If we become involved in this litigation, it could consume a substantial portion of our managerial and financial resources.

We may be unable to adequately prevent disclosure of trade secrets, proprietary databases, and other proprietary information.

We rely on trade secrets to protect our proprietary technologies and databases, especially where we do not believe patent protection is appropriate or obtainable. However, trade secrets are difficult to protect. We rely in part on confidentiality agreements with our employees, consultants, outside scientific collaborators, sponsored researchers and others to protect our trade secrets and other proprietary information. These agreements may not effectively prevent disclosure of confidential information and may not provide an adequate remedy if unauthorized disclosure of confidential information occurs. In addition, others may independently discover our trade secrets and proprietary information. Costly and time-consuming litigation could be necessary to enforce and determine the scope of our proprietary rights, and failure to obtain or maintain trade secret protection could adversely affect our competitive position.

If we fail to comply with our obligations under license or technology agreements with third parties, we could lose license rights that are critical to our business.

We license intellectual property that is important to our business, including licenses underlying the technology in our molecular diagnostic and pharmaceutical and clinical services, and in the future we may enter into additional agreements that provide us with licenses to valuable intellectual property or technology. These licenses impose various royalty payments, milestones, and other obligations on us. If we fail to comply with any of these obligations, the licensor may have the right to terminate the license. Termination by the licensor would cause us to lose valuable rights, and could prevent us from distributing our current tests, or inhibit our ability to commercialize future test candidates. Our business would suffer if any current or future licenses terminate, if the licensors fail to abide by the terms of the license, if the licensors fail to prevent infringement by third parties, if the licensed patents or other rights are found to be invalid or unenforceable, or if we are unable to enter into necessary licenses on acceptable terms.

We may be subject to claims that we or our employees have wrongfully used or disclosed alleged trade secrets of their former employers.

As is commonplace in our industry, we employ individuals who were previously employed at other biotechnology or pharmaceutical companies, including our potential competitors. Although no claims against us are currently pending, we may be subject to claims that these employees have inadvertently or otherwise used or disclosed trade secrets or other proprietary information of their former employers. Litigation may be necessary to defend against these claims. Even if we are successful in defending against these claims, litigation could result in substantial costs and be a distraction to management.

Risks Related to Government Regulation

If we fail to comply with the complex federal, state, local and foreign laws and regulations that apply to our business, we could suffer severe consequences that could materially and adversely affect our operating results and financial condition.

Our operations are subject to extensive federal, state, local and foreign laws and regulations, all of which are subject to change. These laws and regulations currently include, among other things:

- CLIA, which requires that laboratories obtain certification from the federal government, and state licensure laws;
- FDA laws and regulations;
- HIPAA, which imposes comprehensive federal standards with respect to the privacy and security of protected health information and requirements for the use of certain standardized electronic transactions; amendments to HIPAA under HITECH, which strengthen and expand HIPAA privacy and security compliance requirements, increase penalties for violators, extend enforcement authority to state attorneys general and impose requirements for breach notification;
- state laws regulating genetic testing and protecting the privacy of genetic test results, as well as state laws protecting the privacy and security of health information and personal data and mandating reporting of breaches to affected individuals and state regulators;
- the federal anti-kickback law, or the Anti-Kickback Statute, which prohibits knowingly and willfully offering, paying, soliciting, receiving, or providing remuneration, directly or indirectly, in exchange for or to induce either the referral of an individual, or the furnishing, arranging for, or recommending of an item or service that is reimbursable, in whole or in part, by a federal health care program;
- the federal False Claims Act, which imposes liability on any person or entity that, among other things, knowingly presents, or causes to be presented, a false or fraudulent claim for payment to the federal government;
- the federal Civil Monetary Penalties Law, which prohibits, among other things, the offering or transfer of remuneration to a Medicare or state health care program beneficiary if the person knows or should know it is likely to influence the beneficiary's selection of a particular provider, practitioner, or supplier of services reimbursable by Medicare or a state health care program, unless an exception applies;
- other federal and state fraud and abuse laws, such as anti-kickback laws, prohibitions on self-referral, and false claims acts, which may extend to services reimbursable by any third-party payor, including private insurers;

- the federal Physician Payments Sunshine Act, which requires medical device manufactures to track and report to the federal government certain payments and other transfers of value made to physicians and teaching hospitals and ownership or investment interests held by physicians and their immediate family members;
- Section 216 of the federal Protecting Access to Medicare Act of 2014 (“PAMA”), which requires applicable laboratories to report private payer data in a timely and accurate manner beginning in 2017 and every three years thereafter (and in some cases annually);
- state laws that impose reporting and other compliance-related requirements; and
- similar foreign laws and regulations that apply to us in the countries in which we operate.

These laws and regulations are complex and are subject to interpretation by the courts and by government agencies. Our failure to comply could lead to civil or criminal penalties, exclusion from participation in state and federal health care programs, or prohibitions or restrictions on our laboratories’ ability to provide or receive payment for our services. We believe that we are in material compliance with all statutory and regulatory requirements, but there is a risk that one or more government agencies could take a contrary position, or that a private party could file suit under the qui tam provisions of the federal False Claims Act or a similar state law. Such occurrences, regardless of their outcome, could damage our reputation and adversely affect important business relationships with third parties, including managed care organizations, and other private third-party payors.

Failure to comply with government laws and regulations related to submission of claims for our services could result in significant monetary damages and penalties and exclusion from the Medicare and Medicaid programs and corresponding foreign reimbursement programs.

We are subject to laws and regulations governing the submission of claims for payment for our services, such as those relating to: coverage of our services under Medicare, Medicaid and other state, federal and foreign health care programs; the amounts that we may bill for our services; and the party to which we must submit claims. Our failure to comply with applicable laws and regulations could result in our inability to receive payment for our services or in attempts by state and federal healthcare programs, such as Medicare and Medicaid, to recover payments already made. Submission of claims in violation of these laws and regulations can result in recoupment of payments already received, substantial civil monetary penalties, and exclusion from state and federal health care programs, and can subject us to liability under the federal False Claims Act and similar laws. The failure to report and return an overpayment to the Medicare or Medicaid program within 60 days of identifying its existence can give rise to liability under the False Claims Act. Further, a government agency could attempt to hold us liable for causing the improper submission of claims by another entity for services that we performed if we were found to have knowingly participated in the arrangement at issue.

Our business could be harmed by the loss, suspension, or other restriction on a license, certification, or accreditation, or by the imposition of a fine or penalties, under CLIA, its implementing regulations, or other state, federal and foreign laws and regulations affecting licensure or certification, or by future changes in these laws or regulations.

The diagnostic testing industry is subject to extensive laws and regulations, many of which have not been interpreted by the courts. CLIA requires virtually all laboratories to be certified by the federal government and mandates compliance with various operational, personnel, facilities administration, quality and proficiency testing requirements intended to ensure that testing services are accurate, reliable and timely. CLIA certification is also a prerequisite to be eligible to bill state and federal health care programs, as well as many private third-party payors, for laboratory testing services. As a condition of CLIA certification, each of our laboratories is subject to survey and inspection every other year, in addition to being subject to additional random inspections. The biennial survey is conducted by CMS; a CMS agent (typically a state agency); or, if the laboratory holds a CLIA certificate of accreditation, a CMS-approved accreditation organization. Sanctions for failure to comply with CLIA requirements, including proficiency testing violations, may include suspension, revocation, or limitation of a laboratory’s CLIA certificate, which is necessary to conduct business, as well as the imposition of significant fines or criminal penalties. In addition, we are subject to regulation under state laws and regulations governing laboratory licensure. Some states have enacted state licensure laws that are more stringent than CLIA. We are also subject to laws and regulations governing our reference laboratory in Germany. Changes in state or foreign licensure laws that affect our ability to offer and provide diagnostic services across state or foreign country lines could materially and adversely affect our business. In addition, state and foreign requirements for laboratory certification may be costly or difficult to meet and could affect our ability to receive specimens from certain states or foreign countries.

Any sanction imposed under CLIA, its implementing regulations, or state or foreign laws or regulations governing licensure, or our failure to renew a CLIA certificate, a state or foreign license, or accreditation, could have a material adverse effect on our business. If the CLIA certificate of any one of our laboratories is revoked, CMS could seek revocation of the CLIA certificates of our other laboratories based on their common ownership or operation, even though they are separately certified.

Changes in the way that the FDA regulates tests performed by laboratories like ours could result in delay or additional expense in offering our tests and tests that we may develop in the future.

Historically, the FDA has exercised enforcement discretion with respect to most LDTs and has not required laboratories that furnish LDTs to comply with the agency's requirements for medical devices (e.g., establishment registration, device listing, quality systems regulations, premarket clearance or premarket approval, and post-market controls). In recent years, however, the FDA publicly announced its intention to regulate certain LDTs and issued two draft guidance documents that set forth a proposed phased-in risk-based regulatory framework that would apply varying levels of FDA oversight to LDTs. However, these guidance documents were withdrawn at the end of the Obama administration and replaced by an informal discussion paper reflecting some of the feedback that FDA had received on LDT regulation. The FDA acknowledged that the discussion paper in January 2017 that the FDA stated does not represent the formal position of the FDA and is not enforceable. Nevertheless, the FDA wanted to share its synthesis of the feedback that it had received in the hope that it might advance public discussion on future LDT oversight. Notwithstanding the discussion paper, the FDA continues to exercise enforcement discretion and may decide to regulate certain LDTs on a case-by-case basis at any time, which could result in delay or additional expense in offering our tests and tests that we may develop in the future.

Companion and complementary diagnostic tests require FDA approval and we may not be able to secure such approval in a timely manner or at all.

Our companion and complementary diagnostic products, marketing, sales and development activities and manufacturing processes are subject to extensive and rigorous regulation by the FDA pursuant to the Federal Food, Drug, and Cosmetic Act (FDCA), by comparable agencies in foreign countries, and by other regulatory agencies and governing bodies. Under the FDCA, companion diagnostics must receive FDA clearance or approval before they can be commercially marketed in the U.S. The process of obtaining marketing approval or clearance from the FDA or by comparable agencies in foreign countries for new products could:

- take a significant period of time;
- require the expenditure of substantial resources;
- involve rigorous pre-clinical testing, as well as increased post-market surveillance;
- require changes to products; and
- result in limitations on the indicated uses of products.

Although we obtained FDA approval for our BRCA_{Analysis} CDx test, which is used as a companion diagnostic to identify ovarian cancer patients who may benefit from AstraZeneca's PARP inhibitor Lynparza™ (olaparib) and as a complementary diagnostic in ovarian cancer patients associated with enhanced progression-free survival (PFS) from Tesaro's PARP inhibitor Zejula™ (niraparib) maintenance therapy, we cannot predict whether or when we will be able to obtain FDA approval for other companion diagnostics that we are developing.

If the government and third-party payors fail to provide coverage and adequate payment for our tests and future tests, if any, our revenue and prospects for profitability will be harmed.

In both domestic and foreign markets, sales of our molecular diagnostic tests or any future diagnostic tests will depend in large part, upon the availability of reimbursement from third-party payors. Such third-party payors include state and federal health care programs such as Medicare, managed care providers, private health insurers and other organizations. These third-party payors are increasingly attempting to contain healthcare costs by demanding price discounts or rebates and limiting both coverage on which diagnostic tests they will pay for and the amounts that they will pay for new molecular diagnostic tests. We have recently experienced price reductions from CMS for some of our products and may experience future price reductions from managed care organizations and other third-party payors. The fact that a diagnostic test has been approved for reimbursement in the past, for any particular indication or in any particular jurisdiction, does not guarantee that such a diagnostic test will remain approved for reimbursement or that similar or additional diagnostic tests will be approved in the future. Moreover, there can be no assurance that any new tests we launch, such as myRisk Hereditary Cancer, myPath Melanoma and myPlan Lung Cancer, will be reimbursed at rates that are comparable to the rates that we historically obtained for our existing product portfolio. As a result, third-party payors may not cover or provide adequate payment for our current or future molecular diagnostic tests. Adequate third-party reimbursement might not be available to enable us to maintain price levels sufficient to realize an appropriate return on investment in product development. Further, beginning in 2018 under PAMA, Medicare reimbursement for any given diagnostic test will be based on the weighted-median of the payments made by private payors for such test, rendering private payor payment levels even more significant. As a result, future Medicare payments may fluctuate more often and become subject to the willingness of private payors to recognize the value of diagnostic tests generally and any given test individually.

U.S. and foreign governments continue to propose and pass legislation designed to reduce the cost of health care. For example, in some foreign markets, the government controls the pricing of many health care products. We expect that there will continue to be federal and state proposals to implement governmental controls or impose health care requirements. In addition, the Medicare program and increasing emphasis on managed care in the United States will continue to put pressure on product pricing. Cost control initiatives could decrease the price that we would receive for any tests in the future, which would limit our revenue and profitability.

Our business could be adversely impacted by our failure or the failure of physicians to comply with the ICD-10-CM Code Set.

CMS adopted a new coding set for diagnoses, commonly known as ICD-10-CM, which significantly expanded the previous coding set. Compliance with ICD-10-CM is required for all claims with dates of service on or after October 1, 2015. We believe we have fully implemented ICD-10-CM, however, our failure to implement and apply the new code set could adversely impact our business. In addition, if physicians fail to provide appropriate codes for desired tests, we may not be reimbursed for tests we perform.

Risks Related to Our Common Stock

Our stock price is highly volatile, and our stock may lose all or a significant part of its value.

The market prices for securities of molecular diagnostic companies have been volatile. This volatility has significantly affected the market prices for these securities for reasons frequently unrelated to the operating performance of the specific companies. These broad market fluctuations may adversely affect the market price of our common stock. The market price for our common stock has fluctuated significantly since public trading commenced in October 1995, and it is likely that the market price will continue to fluctuate in the future. In the two years ended June 30, 2017, our stock price has ranged from \$15.15 per share to \$46.24 per share. In addition, the stock market in general has experienced extreme price and volume fluctuations. Events or factors that may have a significant impact on our business and on the market price of our common stock include the following:

- failure of any of our recently launched tests and any new test candidates to achieve commercial success;
- failure to sustain revenue growth or margins in our molecular diagnostic business;
- changes in the structure of healthcare payment systems and changes in the governmental or private insurers reimbursement levels for our molecular diagnostic tests;
- introduction of new commercial tests or technological innovations by competitors;
- termination of the licenses underlying our molecular diagnostic and pharmaceutical and clinical services;
- delays or other problems with operating our laboratory facilities;
- failure of any of our research and development programs;
- changes in intellectual property laws of our patents or enforcement in the United States and foreign countries;
- developments or disputes concerning patents or other proprietary rights involving us directly or otherwise affecting the industry as a whole;
- missing or changing the financial guidance we provide;
- changes in estimates or recommendations by securities analysts relating to our common stock or the securities of our competitors;
- changes in the governmental regulatory approved process for our existing and new tests;
- failure to meet estimates or recommendations by securities analysts that cover our common stock;
- public concern over our approved tests and any test candidates;
- litigation;
- future sales or anticipated sales of our common stock by us or our stockholders;
- the timing and amount of repurchases of our common stock;
- general market conditions;
- seasonal slowness in sales, particularly in the quarters ending September 30 and March 31, the effects of which may be difficult to understand during periods of growth;
- celebrity publicity;
- economic, healthcare and diagnostic trends, disasters or crises and other external factors; and
- period-to-period fluctuations in our financial results.

These and other external factors may cause the market price and demand for our common stock to fluctuate substantially, which may limit or prevent investors from readily selling their shares of common stock and may otherwise negatively affect the liquidity of our common stock. In addition, securities class action litigation against companies has been on the rise. If any of our stockholders brought a lawsuit against us, we could incur substantial costs defending the lawsuit regardless of the outcome. Such a lawsuit could also divert the time and attention of our management.

Anti-takeover provisions of Delaware law, provisions in our charter and bylaws and re-adoption of our stockholders' rights plan, or poison pill, could make a third-party acquisition of us difficult.

Because we are a Delaware corporation, the anti-takeover provisions of Delaware law could make it more difficult for a third party to acquire control of us, even if the change in control would be beneficial to stockholders. We are subject to the provisions of Section 203 of the General Corporation Law of Delaware, which prohibits us from engaging in certain business combinations, unless the business combination is approved in a prescribed manner. In addition, our restated certificate of incorporation and restated bylaws also contain certain provisions that may make a third-party acquisition of us difficult, including:

- a classified board of directors, with three classes of directors each serving a staggered three-year term;
- the ability of the board of directors to issue preferred stock;
- a 70% super-majority shareholder vote to amend our bylaws and certain provisions of our certificate of incorporation; and
- the inability of our stockholders to call a special meeting or act by written consent.

In the past, we implemented a stockholders' rights plan, also called a poison pill, which could make it uneconomical for a third party to acquire our company on a hostile basis. Although the plan expired in July 2011, our Board of Directors could adopt a new plan at any time. The provisions in a stockholders' rights plan, as well as Section 203, may discourage certain types of transactions in which our stockholders might otherwise receive a premium for their shares over then current market price, and may limit the ability of our stockholders to approve transactions that they think may be in their best interests.

We are currently subject to a purported securities class action lawsuit, the unfavorable outcome of which may have a material adverse effect on our financial condition, results of operations and cash flows.

On April 20, 2018, a purported securities class action lawsuit was filed against us and certain of our current and former executive officers alleging violations of the Securities Exchange Act of 1934, as amended, and Rule 10b-5 promulgated thereunder. This lawsuit is premised upon allegations that the defendants made false and misleading statements regarding our business, operational and compliance policies, specifically by allegedly failing to disclose that we were allegedly submitting false or otherwise improper claims for payment under Medicare and Medicaid for our hereditary cancer testing. While we intend to vigorously defend against this action, there is no assurance that we will be successful in the defense or that insurance will be available or adequate to fund any settlement or judgment or the litigation costs of the action. This action may divert management resources, we may incur substantial costs, and any unfavorable outcome may have a material adverse effect on our financial condition, results of operations and cash flows.

Investigations of the Department of Health and Human Services, Office of Inspector General

In February 2018, the Company received a Subpoena from the Department of Health and Human Services, Office of Inspector General, in connection with an investigation into possible false or otherwise improper claims submitted for payment under Medicare and Medicaid. The Subpoena requested that the Company produce documents relating primarily to the Company's billing to government-funded healthcare programs for the Company's hereditary cancer testing. The time period covered by the Subpoena is January 1, 2014 through the date of issuance of the Subpoena. The Company is cooperating with the Government's request and is in the process of responding to the Subpoena. The Company is unable to predict what action, if any, might be taken in the future by the Government or any other regulatory authority as a result of the matters related to this investigation. No claims have been made against the Company.

In addition, the Company's wholly-owned subsidiary, Crescendo Bioscience, Inc. ("CBI"), received in June 2016 a Subpoena from the Department of Health and Human Services, Office of Inspector General, requesting that CBI produce documents relating to a designated unrelated company, other third party entities, and healthcare providers who received payment from CBI for the collection and processing of blood specimens for testing. In connection with this investigation, the Government has recently requested additional documents. CBI is providing the documents requested and continues to cooperate with the Government's requests. CBI is unable to predict what action, if any, might be taken in the future by the Government or any other regulatory authority as a result of the matters related to this investigation. No claims have been made against CBI.

See the risk factors entitled, "If we fail to comply with the complex federal, state, local and foreign laws and regulations that apply to our business, we could suffer severe consequences that could materially and adversely affect our operating results and financial condition" and "Failure to comply with government laws and regulations related to submission of claims for our services could result in significant monetary damages and penalties and exclusion from the Medicare and Medicaid programs and corresponding foreign reimbursement programs" above for additional information about potential risks that may result from such investigations.

USE OF PROCEEDS

All shares of common stock sold pursuant to this prospectus will be sold by the selling stockholders. We will not receive any of the proceeds from such sales.

SELLING STOCKHOLDERS

Up to 2,994,251 shares of common stock are being offered by this prospectus, all of which are being offered for resale for the account of the selling stockholders. The shares being offered were issued to the selling stockholders pursuant to the Merger Agreement. The selling stockholders may, from time to time, offer and sell pursuant to this prospectus any or all of the shares of common stock being registered. When we refer to the “selling stockholders” in this prospectus, we mean the persons listed in the table below.

The table below sets forth certain information known to us, based upon written representations from the selling stockholders, with respect to the beneficial ownership of our shares of common stock held by the selling stockholders as of July 31, 2018, the date of closing of our acquisition of Counsyl. Because the selling stockholders may sell, transfer or otherwise dispose of all, some or none of the shares of our common stock covered by this prospectus, we cannot determine the number of such shares that will be sold, transferred or otherwise disposed of by the selling stockholders, or the amount or percentage of shares of our common stock that will be held by the selling stockholders upon termination of any particular offering. See the section of this prospectus captioned “Plan of Distribution” for additional information. For purposes of the table below, we assume that the selling stockholders will sell all their shares of common stock covered by this prospectus.

In the table below, the percentage of shares beneficially owned is based on 70,834,850 shares of our common stock outstanding on July 30, 2018, determined in accordance with Rule 13d-3 under the Exchange Act of 1934, as amended. Under such rule, beneficial ownership includes any shares over which the selling stockholder has sole or shared voting power or investment power and also any shares that the selling stockholder has the right to acquire within 60 days of such date through the exercise of any options or other rights. Except as otherwise indicated, we believe that the selling stockholders have sole voting and investment power with respect to all shares of the common stock shown as beneficially owned by them. The beneficial ownership information presented in this table is not necessarily indicative of beneficial ownership for any other purpose. Once sold under the registration statement, of which this prospectus forms a part, the shares of common stock will be freely tradable in the hands of persons other than our affiliates that may be subject to additional trading limitations (i.e., trading windows) under applicable laws.

Name of Selling Stockholder	Prior to the Offering		Number of Shares of Common Stock Being Registered for Resale	After the Offering	
	Number of Shares of Common Stock Beneficially Owned	Percent of Shares of Common Stock Outstanding		Number of Shares of Common Stock Beneficially Owned	Percent of Common Stock Outstanding
Aarin Capital Partners	57,141	**	57,141	0	0
Priti Agrawal	105	**	105	0	0
Kevin Conroy	1,533	**	1,533	0	0
Anya Joseph Trust	3,505	**	3,505	0	0
Aspen Partners II	10,212	**	10,212	0	0
Andrew Atwal	26,607	**	26,607	0	0
Michael Avila	5,392	**	5,392	0	0
Laurent Baxley	3,548	**	3,548	0	0
BeamReach LLC	3,190	**	3,190	0	0
Colin Bennett	569	**	569	0	0
Rotem Ben-Shachar	895	**	895	0	0
Ben Bercham	36	**	36	0	0
Amir Bina	5,510	**	5,510	0	0
Jennifer Blakely	23,105	**	23,105	0	0
Joanna Bradley	1,300	**	1,300	0	0

Yiqun Cao	420	**	420	0	0
Katrina Carrion	264	**	264	0	0
Amit Chandarana	952	**	952	0	0
Nitin Chexal	3,673	**	3,673	0	0
Alan Chin	2,395	**	2,395	0	0
Clement Chu	10,807	**	10,807	0	0
Tricia Clark	578	**	578	0	0
Christopher Crutchfield	6,389	**	6,389	0	0
DALPP L.P *	2,721	**	2,721	0	0
Daniel Davison	6,142	**	6,142	0	0
Bhupendra Dodhiawala	3,370	**	3,370	0	0
Rajendra Dodhiawala	149	**	149	0	0
Jaclyn Eng	1,468	**	1,468	0	0
Jon Entine	8,762	**	8,762	0	0
Kirk Erickson	1,820	**	1,820	0	0
Bernard Eskandari	1,637	**	1,637	0	0
Eric Evans	104,464	**	104,464	0	0
Jayson Falkner	1,781	**	1,781	0	0
Steven Fletcher	1,427	**	1,427	0	0
Kimberley Forman	306	**	306	0	0
Aaron Freidin	1,029	**	1,029	0	0
G Balasubramaniam M D	8,671	**	8,671	0	0
Christopher Gemulla	647	**	647	0	0
Michelle Gilats	1,060	**	1,060	0	0
Stuart Glaser	792	**	792	0	0
Seth Glass	5,392	**	5,392	0	0
Krishnan Gopal	6,063	**	6,063	0	0
Anthony Gupta	3,638	**	3,638	0	0
Ram Gupta	1,023	**	1,023	0	0
Kevin Haas	5,502	**	5,502	0	0
Imran Haque	9,309	**	9,309	0	0
Jonathan Harding	49	**	49	0	0
Scott Hayworth	4,586	**	4,586	0	0
George Hecksher	3,190	**	3,190	0	0
Kevin Iori	3,365	**	3,365	0	0
Rhoda Irani	2,046	**	2,046	0	0
Francisco Irao	3,423	**	3,423	0	0
Veena Iyer	865	**	865	0	0

Arnold Jacobson	5,957	**	5,957	0	0
Jessica Jacobson	8,762	**	8,762	0	0
Derek Jenkins	1,587	**	1,587	0	0
Katherine Johansen Taber	633	**	633	0	0
Leo Joseph	9,952	**	9,952	0	0
Joel Jung	25,405	**	25,405	0	0
Ashok Kacker	9,188	**	9,188	0	0
Rishi Kacker	125,285	**	125,285	0	0
Mohit Kalra	1,604	**	1,604	0	0
Deepa Kannappan	438	**	438	0	0
Jotthe Kannappan	438	**	438	0	0
Mohit Khera	2,694	**	2,694	0	0
Kiva Joseph Trust	3,505	**	3,505	0	0
Dean Ku	21,552	**	21,552	0	0
Gabriel Lazarin	3,515	**	3,515	0	0
Christina Lee	29	**	29	0	0
Thomas Leung	7,757	**	7,757	0	0
Jabari Lewis Gray	3,493	**	3,493	0	0
Jian Li	963	**	963	0	0
Limited Partnership Vintage VI Mgr Hlds LP *	5,149	**	5,149	0	0
Susan Lin	5,256	**	5,256	0	0
Linan LLC	7,978	**	7,978	0	0
Hsin-Lin Liu	1,040	**	1,040	0	0
LN Family Trust	26,755	**	26,755	0	0
Robert Lucas	2,192	**	2,192	0	0
Jaydev Mahadevan	2,318	**	2,318	0	0
Jonathan Manson	52,564	**	52,564	0	0
Laura Martini	249	**	249	0	0
Yash Mehta	1,816	**	1,816	0	0
Rock Meng	11,190	**	11,190	0	0
Minh Merchant	819	**	819	0	0
Thiyagarajan Meyappan	3,370	**	3,370	0	0
Matthew Meyer	645	**	645	0	0
Meyyappan-Kannappan Family Trust	1,170	**	1,170	0	0
Brenda Moreno	1,269	**	1,269	0	0
Michael Mystic	4,157	**	2,811	1,346	**

Manohar Nallathambi	506	**	506	0	0
Noah Nasser	14,514	**	14,514	0	0
Shivani Nazareth	7,202	**	7,202	0	0
NB Crossroads XX VC Holdings LP *	95,737	**	95,737	0	0
NB Pacific Private Equity LLC *	63,825	**	63,825	0	0
NB PEP Holdings Limited *	109,518	**	109,518	0	0
NB Sauger Fund Limited Partnership *	47,868	**	47,868	0	0
NB Wildcats Fund LP *	31,912	**	31,912	0	0
NextStage LLC	3,190	**	3,190	0	0
Niall Joseph Trust	3,505	**	3,505	0	0
Dipchand Nishar	3,505	**	3,505	0	0
Matthew Pauker	6,003	**	6,003	0	0
Youlian Petkov	2,817	**	2,817	0	0
Pilot Growth Alpha Fund LLC *	228,849	**	228,849	0	0
Pilot Growth Equity Fund I L.P. *	135,503	**	135,503	0	0
Pilot Growth Fund LLC *	68,549	**	68,549	0	0
Pilot Growth Bravo Fund LLC *	797,819	1.13%	797,819	0	0
Private Equity Capital L.P. *	73,195	**	73,195	0	0
Meena Ramachandran	2,423	**	2,423	0	0
RA Program L.P *	687	**	687	0	0
Matthew Rasmussen	5,140	**	5,140	0	0
Nitin Rastogi	3,400	**	3,400	0	0
Kaylene Ready	2,393	**	2,393	0	0
Ravindranath and Lalitha Reddy	6,376	**	6,376	0	0
Alissa Reiter	3,896	**	3,896	0	0
Ann Rhoads	7,157	**	7,157	0	0
Irina Ridley	2,997	**	2,997	0	0
Roger D Miles Trust	3,190	**	3,190	0	0
Hallie Rossi	345	**	345	0	0
Lily Sarafan	6,967	**	6,967	0	0
David Scheurl	10,838	**	10,838	0	0
William Seltzer	7,895	**	7,895	0	0
Abhik Shah	6,293	**	6,293	0	0
Munjal Shah	401	**	401	0	0
Amy Sharma	1,337	**	1,337	0	0
Rachel Sharma	329	**	329	0	0
Jonathan Singer	301	**	301	0	0
Kishor Peter Soparkar	43,626	**	43,626	0	0
Ramji Srinivasan	61,885	**	61,885	0	0
Kimberly Standfest	602	**	602	0	0
Julie Supan	330	**	330	0	0

John Tan	16,311	**	16,311	0	0
The Chin Family Trust	62,772	**	62,772	0	0
The Gullixson Living Trust	5,118	**	5,118	0	0
The Kacker Family Trust I u/a/d 5/20/2015	45,941	**	45,941	0	0
Helen Tsao	5,600	**	5,600	0	0
Marvin Tse	469	**	469	0	0
Ubar Investment Holdings Limited *	2,456	**	2,456	0	0
Feng Vang	208	**	208	0	0
Kalyan Venkat	3,519	**	3,519	0	0
Venture Lending & Leasing VI LLC	31,883	**	31,883	0	0
Nettles Jr William	3,190	**	3,190	0	0
Jenan Wise	9,769	**	9,769	0	0
Rosemary Wong	13	**	13	0	0
WP SCF Select Co-Investment Fund L.P.	49,562	**	49,562	0	0
Wright Contracting Inc	11,857	**	11,857	0	0
Sharon Young	3,614	**	3,614	0	0
Michael Zee	130,037	**	130,037	0	0
Vivian Zee	15,192	**	15,192	0	0
Grace Chiang	786	**	786	0	0
Michael Dorr	958	**	958	0	0
Total shares of Common Stock	2,995,597	4.23%	2,994,251	1,346	**

* The selling stockholder may be deemed to be an affiliate of a broker-dealer. The selling stockholder acquired the shares being registered hereunder in the ordinary course of business, and at the time of the acquisition of the shares described herein, the selling stockholder did not have any arrangements or understandings with any person to distribute such shares.

** Less than one percent.

PLAN OF DISTRIBUTION

The selling stockholders may sell all or a portion of the shares of common stock beneficially owned by them and offered hereby from time to time directly or through one or more underwriters, broker-dealers or agents. If the shares of common stock are sold through underwriters or broker-dealers, the selling stockholders will be responsible for underwriting discounts or commissions or agent's commissions. The shares of common stock may be sold in one or more transactions at fixed prices, at prevailing market prices at the time of the sale, at varying prices determined at the time of sale, or at negotiated prices. These sales may be effected in transactions, which may involve crosses or block transactions, pursuant to one or more of the following methods:

- on any national securities exchange or quotation service on which the securities may be listed or quoted at the time of sale;
- in the over-the-counter market;
- in transactions otherwise than on these exchanges or systems or in the over-the-counter market;
- through the writing of options, whether such options are listed on an options exchange or otherwise;
- ordinary brokerage transactions and transactions in which the broker-dealer solicits purchasers;
- block trades in which the broker-dealer will attempt to sell the shares as agent but may position and resell a portion of the block as principal to facilitate the transaction;
- purchases by a broker-dealer as principal and resale by the broker-dealer for its account;
- an exchange distribution in accordance with the rules of the applicable exchange;
- privately negotiated transactions;
- short sales;
- sales pursuant to Rule 144;
- broker-dealers may agree with the selling securityholders to sell a specified number of such shares at a stipulated price per share;
- a combination of any such methods of sale; and
- any other method permitted pursuant to applicable law.

If the selling stockholders effect such transactions by selling shares of common stock to or through underwriters, broker-dealers or agents, such underwriters, broker-dealers or agents may receive commissions in the form of discounts, concessions or commissions from the selling stockholders or commissions from purchasers of the shares of common stock for whom they may act as agent or to whom they may sell as principal (which discounts, concessions or commissions as to particular underwriters, broker-dealers or agents may be in excess of those customary in the types of transactions involved). In connection with sales of the shares of common stock or otherwise, the selling stockholders may enter into hedging transactions with broker-dealers, which may in turn engage in short sales of the shares of common stock in the course of hedging in positions they assume. The selling stockholders may also sell shares of common stock short and deliver shares of common stock covered by this prospectus to close out short positions and to return borrowed shares in connection with such short sales. The selling stockholders may also loan or pledge shares of common stock to broker-dealers that in turn may sell such shares.

The selling stockholders may pledge or grant a security interest in some or all of the shares of common stock owned by them and, if they default in the performance of their secured obligations, the pledgees or secured parties may offer and sell the shares of common stock from time to time pursuant to this prospectus or any amendment to this prospectus under Rule 424(b)(3) or other applicable provision of the Securities Act of 1933, as amended, amending, if necessary, the list of selling stockholders to include the pledgee, transferee or other successors in interest as selling stockholders under this prospectus. The selling stockholders also may transfer and donate the shares of common stock in other circumstances in which case the transferees, donees, pledgees or other successors in interest will be the selling beneficial owners for purposes of this prospectus.

The selling stockholders and any broker-dealer participating in the distribution of the shares of common stock may be deemed to be "underwriters" within the meaning of the Securities Act, and any commission paid, or any discounts or concessions allowed to, any such broker-dealer may be deemed to be underwriting commissions or discounts under the Securities Act. At the time a particular offering of the shares of common stock is made, a prospectus supplement, if required, will be distributed which will set forth the aggregate amount of shares of common stock being offered and the terms of the offering, including the name or names of any broker-dealers or agents, any discounts, commissions and other terms constituting compensation from the selling stockholders and any discounts, commissions or concessions allowed or re-allowed or paid to broker-dealers.

Under the securities laws of some states, the shares of common stock may be sold in such states only through registered or licensed brokers or dealers. In addition, in some states the shares of common stock may not be sold unless such shares have been registered or qualified for sale in such state or an exemption from registration or qualification is available and is complied with.

There can be no assurance that any selling stockholder will sell any or all of the shares of common stock registered pursuant to the registration statement, of which this prospectus forms a part.

The selling stockholders and any other person participating in such distribution will be subject to applicable provisions of the Exchange Act and the rules and regulations thereunder, including, without limitation, Regulation M of the Exchange Act, which may limit the timing of purchases and sales of any of the shares of common stock by the selling stockholders and any other participating person. Regulation M may also restrict the ability of any person engaged in the distribution of the shares of common stock to engage in market-making activities with respect to the shares of common stock. All of the foregoing may affect the marketability of the shares of common stock and the ability of any person or entity to engage in market-making activities with respect to the shares of common stock.

We will pay all expenses of the registration of the shares of common stock, including, without limitation, SEC filing fees and expenses of compliance with state securities or “blue sky” laws.

Once sold under the registration statement, of which this prospectus forms a part, the shares of common stock will be freely tradable in the hands of persons other than our affiliates that may be subject to additional trading limitations (i.e., trading windows).

LEGAL MATTERS

Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C., Boston, Massachusetts, will provide us with an opinion as to the legal matters in connection with the securities we are offering.

EXPERTS

The consolidated financial statements of Myriad Genetics, Inc. appearing in Myriad Genetics, Inc.'s Annual Report (Form 10-K) for the year ended June 30, 2017 (including the schedule appearing therein), and the effectiveness of Myriad's internal control over financial reporting as of June 30, 2017 have been audited by Ernst & Young LLP, independent registered public accounting firm, as set forth in their reports thereon, included therein, and incorporated herein by reference. Such consolidated financial statements are incorporated herein by reference in reliance upon such reports given on the authority of such firm as experts in accounting and auditing.

WHERE YOU CAN FIND ADDITIONAL INFORMATION

We file annual, quarterly and current reports, proxy statements and other information with the SEC. Our SEC filings are available to the public over the Internet at the SEC's website at <http://www.sec.gov>. Copies of certain information filed by us with the SEC are also available on our website at www.myriad.com. Information accessible on or through our website is not a part of this prospectus. You may also read and copy any document we file at the SEC's public reference room, 100 F Street, N.E., Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for further information on the operation of the public reference room.

This prospectus is part of a registration statement we filed with the SEC. This prospectus omits some information contained in the registration statement in accordance with SEC rules and regulations. You should review the information and exhibits in the registration statement for further information on us and our consolidated subsidiaries and the securities we are offering. Statements in this prospectus concerning any document we filed as an exhibit to the registration statement or that we otherwise filed with the SEC are not intended to be comprehensive and are qualified by reference to these filings. You should review the complete document to evaluate these statements.

INFORMATION INCORPORATED BY REFERENCE

The SEC allows us to incorporate by reference much of the information we file with the SEC, which means that we can disclose important information to you by referring you to those publicly available documents. The information that we incorporate by reference in this prospectus is considered to be part of this prospectus. Because we are incorporating by reference future filings with the SEC, this prospectus is continually updated and those future filings may modify or supersede some of the information included or incorporated by reference in this prospectus. This means that you must look at all of the SEC filings that we incorporate by reference to determine if any of the statements in this prospectus or in any document previously incorporated by reference have been modified or superseded. This prospectus incorporates by reference the documents listed below and any future filings that we make with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act (in each case, other than those documents or the portions of those documents furnished pursuant to Items 2.02 or 7.01 of any Current Report on Form 8-K), until the offering of the common stock being registered under the registration statement is terminated or completed:

- Annual Report on Form 10-K for the fiscal year ended June 30, 2017;
- The sections of our Definitive Proxy Statement on Schedule 14A for the 2017 Annual Meeting of Stockholders incorporated by reference in our Annual Report on Form 10-K for the year ended June 30, 2017;
- Quarterly Reports on Form 10-Q for the fiscal quarters ended September 30, 2017, December 31, 2017 and March 31, 2018; and
- Current Reports on Form 8-K filed on December 1, 2017 and May 29, 2018.

You may request, orally or in writing, a copy of these documents, which will be provided to you at no cost, by contacting: Investor Relations, Myriad Genetics, Inc., 320 Wakara Way, Salt Lake City, Utah 84108. Our telephone number is (801) 584-3600.

PART II

INFORMATION NOT REQUIRED IN PROSPECTUS

Item 14. Other Expenses of Issuance and Distribution.

The following table sets forth an itemization of the various expenses, all of which we will pay, in connection with the issuance and distribution of the securities being registered. All of the amounts shown are estimated except the SEC Registration Fee.

SEC Registration Fee	\$15,957.03
Legal Fees and Expenses	\$10,000.00
Accounting Fees and Expenses	\$10,000.00
Printing and Miscellaneous Fees and Expenses	\$12,000.00
Total	\$47,757.03

Item 15. Indemnification of Directors and Officers.

Section 145(a) of the General Corporation Law of the State of Delaware provides that a Delaware corporation may indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative (other than an action by or in the right of the corporation) by reason of the fact that he is or was a director, officer, employee or agent of the corporation or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation or enterprise, against expenses, judgments, fines and amounts paid in settlement actually and reasonably incurred by him in connection with such action, suit or proceeding if he acted in good faith and in a manner he reasonably believed to be in or not opposed to the best interests of the corporation, and, with respect to any criminal action or proceeding, had no cause to believe his conduct was unlawful.

Section 145(b) provides that a Delaware corporation may indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action or suit by or in the right of the corporation to procure a judgment in its favor by reason of the fact that such person acted in any of the capacities set forth above, against expenses actually and reasonably incurred by him in connection with the defense or settlement of such action or suit if he acted under similar standards, except that no indemnification may be made in respect of any claim, issue or matter as to which such person shall have been adjudged to be liable to the corporation unless and only to the extent that the court in which such action or suit was brought shall determine that despite the adjudication of liability, such person is fairly and reasonably entitled to be indemnified for such expenses which the court shall deem proper.

Section 145 further provides that to the extent a director or officer of a corporation has been successful in the defense of any action, suit or proceeding referred to in subsections (a) and (b) or in the defense of any claim, issue or matter therein, he shall be indemnified against expenses actually and reasonably incurred by him in connection therewith; that indemnification provided for by Section 145 shall not be deemed exclusive of any other rights to which the indemnified party may be entitled; and that the corporation may purchase and maintain insurance on behalf of a director or officer of the corporation against any liability asserted against him or incurred by him in any such capacity or arising out of his status as such whether or not the corporation would have the power to indemnify him against such liabilities under such Section 145.

Our Restated Certificate of Incorporation, as amended, and our Restated By-Laws provide for indemnification of our directors and officers to the fullest extent permitted by law. The Restated Certificate of Incorporation, as amended, and the Restated By-Laws also permit the Board of Directors to authorize us to purchase and maintain insurance against any liability asserted against any of our directors, officers, employees or agents of arising out of their capacity as such. Insofar as indemnification for liabilities under the Securities Act may be permitted to our directors, officers, or controlling persons pursuant to our Restated Certificate of Incorporation, as amended, our Restated By-laws and the Delaware General Corporation Law, we have been informed that in the opinion of the Commission such indemnification is against public policy as expressed in such Act and is therefore unenforceable.

Item 16. Exhibits.

Exhibit Number	Description of Exhibit
3.1	<u>Restated Certificate of Incorporation (filed as Exhibit 3.1(a) to the Registrant's Form 10-K for the fiscal year ended June 30, 2001 filed September 28, 2001 (File No. 0-26642), and incorporated herein by reference).</u>
3.1a	<u>Certificate of Amendment of Restated Certificate of Incorporation (filed as Exhibit 3.1(b) to the Registrant's Form 10-K for the fiscal year ended June 30, 2001 filed September 28, 2001 (File No. 0-26642), and incorporated herein by reference).</u>
3.2	<u>Restated By-Laws (filed as Exhibit 3.1 to the Registrant's 8-K, filed September 24, 2014, and incorporated herein by reference).</u>
5.1	<u>Opinion of Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C. regarding legality of securities being registered.</u>
23.1	<u>Consent of Independent Registered Public Accounting Firm.</u>
23.2	<u>Consent of Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C. (included in opinion of counsel filed as Exhibit 5.1).</u>
24.1	<u>Power of Attorney (included in the signature pages to this registration statement).</u>

Item 17. Undertakings.

(a) The undersigned registrant hereby undertakes:

- (1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:
 - (i) To include any prospectus required by section 10(a)(3) of the Securities Act of 1933;
 - (ii) To reflect in the prospectus any facts or events arising after the effective date of this registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in this registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Securities and Exchange Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement; and
 - (iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement;

provided, however, that paragraphs (a)(1)(i), (a)(1)(ii) and (a)(1)(iii) do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the Commission by the registrant pursuant to section 13 or section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in the registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of the registration statement.

- (2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.
- (3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.
- (4) That, for the purpose of determining liability under the Securities Act of 1933 to any purchaser:
 - (i) Each prospectus filed by the registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and

- (ii) Each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5), or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii), or (x) for the purpose of providing the information required by Section 10(a) of the Securities Act of 1933 shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof. *Provided, however,* that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date.
- (5) That, for purposes of determining any liability under the Securities Act of 1933, each filing of the Registrant's annual report pursuant to Section 13(a) or 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Exchange Act) that is incorporated by reference in this registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (b) Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the Registrant pursuant to the foregoing provisions, or otherwise, the Registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Act and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Salt Lake and State of Utah on August 1, 2018.

MYRIAD GENETICS, INC.

By: /s/ Mark C. Capone
Mark C. Capone
Chief Executive Officer
and President

SIGNATURES AND POWER OF ATTORNEY

Each of the undersigned directors or officers of Myriad Genetics, Inc., a Delaware corporation (the “Company”), hereby constitutes and appoints Mark C. Capone and R. Bryan Riggsbee as his or her true and lawful attorney-in-fact, with full power of substitution and resubstitution, for him or her and in his or her name, place and stead, in any and all capacities, to execute a Registration Statement on Form S-3 of the Company, and any and all amendments (including post-effective amendments) to such Registration Statement and any Registration Statement relating to any offering made pursuant to this Registration Statement, and to file such Registration Statement(s) and any and all amendments thereto, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorney-in-fact full power and authority to do and perform each and every act and thing necessary or desirable to be done in and about the premises, as fully to all intents and purposes, as he or she might or could do in person, hereby ratifying and confirming all that said attorney-in-fact or his substitute or substitutes may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed below by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ Mark C. Capone</u> Mark C. Capone	President, Chief Executive Officer and Director (<i>Principal Executive Officer</i>)	August 1, 2018
<u>/s/ R. Bryan Riggsbee</u> R. Bryan Riggsbee	Chief Financial Officer (<i>Principal Financial and Accounting Officer</i>)	August 1, 2018
<u>/s/ John T. Henderson</u> John T. Henderson	Chairman of the Board of Directors	August 1, 2018
<u>/s/ Walter Gilbert, Ph.D.</u> Walter Gilbert, Ph.D.	Director	August 1, 2018
<u>/s/ Lawrence C. Best</u> Lawrence C. Best	Director	August 1, 2018
<u>/s/ Heiner Dreismann, Ph.D.</u> Heiner Dreismann, Ph.D.	Director	August 1, 2018
<u>/s/ Dennis Langer, M.D., J.D.</u> Dennis Langer, M.D., J.D.	Director	August 1, 2018
<u>/s/ S. Louise Phanstiel</u> S. Louise Phanstiel	Director	August 1, 2018



One Financial Center
Boston, MA 02111
617-542-6000
617-542-2241 fax
www.mintz.com

August 1, 2018

Myriad Genetics, Inc.
320 Wakara Way
Salt Lake City, Utah 84108

Ladies and Gentlemen:

This opinion is furnished to you in connection with the Registration Statement on Form S-3 (the "Registration Statement"), to be filed on or about August 1, 2018 by Myriad Genetics, Inc. (the "Company") with the Securities and Exchange Commission in connection with the registration for resale under the Securities Act of 1933, as amended (the "Securities Act"), of up to 2,994,251 shares of the Company's common stock, \$0.01 par value per share (the "Shares").

We are acting as counsel for the Company in connection with the registration for resale under the Securities Act of the Shares. In such capacity, we have examined originals or copies, certified or otherwise identified to our satisfaction, of such documents, corporate records, certificates of public officials and other instruments as we have deemed necessary for the purposes of rendering this opinion. In our examination, we have assumed the genuineness of all signatures, the authenticity of all documents submitted to us as originals, the conformity with the originals of all documents submitted to us as copies, the authenticity of the originals of such documents and the legal competence of all signatories to such documents.

We express no opinion herein as to the laws of any state or jurisdiction other than the General Corporation Law of the State of Delaware (including the statutory provisions and all applicable judicial decisions interpreting those laws) and the federal laws of the United States of America.

On the basis of the foregoing, we are of the opinion that the Shares have been duly authorized and are validly issued, fully paid and nonassessable.

We consent to the use of this opinion as an exhibit to the Registration Statement, and we consent to the reference of our name under the caption "Legal Matters" in the prospectus forming part of the Registration Statement. In giving such consent, we do not consider that we are "experts" within the meaning of such term as used in the Securities Act or the rules and regulations of the Commission issued thereunder with respect to any part of the Registration Statement, including this opinion as an exhibit or otherwise.

Very truly yours,

/s/ Mintz Levin, Cohn, Ferris, Glovsky & Popeo, P.C.
MINTZ LEVIN, COHN, FERRIS, GLOVSKY & POPEO,
P.C.

Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C.

BOSTON | LONDON | LOS ANGELES | NEW YORK | SAN DIEGO | SAN FRANCISCO | STAMFORD | WASHINGTON

Consent of Independent Registered Public Accounting Firm

We consent to the reference to our firm under the caption “Experts” in the Registration Statement (Form S-3) and related Prospectus of Myriad Genetics, Inc. for the registration of 2,994,251 shares of its common stock and to the incorporation therein of our reports dated August 9, 2017, with respect to the consolidated financial statements and schedule of Myriad Genetics, Inc., and the effectiveness of internal control over financial reporting of Myriad Genetics, Inc., included in its Annual Report (Form 10-K) for the year ended June 30, 2017, filed with the Securities and Exchange Commission.

/s/ Ernst & Young LLP
Salt Lake City, Utah
August 1, 2018