

Invitae Corp
Form 10-Q
May 09, 2016
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UNITED STATES
SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Form 10-Q

(Mark One)

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

For the quarterly period ended March 31, 2016

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

For the transition period from _____ to _____

Commission File No. 001-36847

Invitae Corporation

(Exact name of the registrant as specified in its charter)

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Delaware
(State or other jurisdiction of
incorporation or organization)

27-1701898
(I.R.S. Employer
Identification No.)

458 Brannan Street, San Francisco, California 94107

(Address of principal executive offices, Zip Code)

(415) 374-7782

(Registrant's telephone number, including area code)

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

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

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

Accelerated filer

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

Smaller reporting company

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

The number of shares of the registrant's Common Stock outstanding as of April 30, 2016 was 32,053,486.

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Table of Contents**PART I Financial Information****ITEM 1. Financial Statements.****INVITAE CORPORATION****Condensed Consolidated Balance Sheets****(In thousands, except share and per share amounts)**

	March 31, 2016 (Unaudited)	December 31, 2015
Assets		
Current assets:		
Cash and cash equivalents	\$ 27,314	\$ 73,238
Marketable securities	76,551	53,780
Prepaid expenses and other current assets	10,853	4,292
Total current assets	114,718	131,310
Property and equipment, net	17,813	18,709
Restricted cash	4,831	4,831
Other assets	1,664	1,826
Total assets	\$ 139,026	\$ 156,676
Liabilities and stockholders' equity		
Current liabilities:		
Accounts payable	\$ 2,694	\$ 3,500
Accrued liabilities	4,241	4,253
Capital lease obligation, current portion	1,529	1,588
Debt, current portion	2,113	1,536
Total current liabilities	10,577	10,877
Capital lease obligation, net of current portion	1,231	1,576
Debt, net of current portion	7,041	5,504
Other long-term liabilities	5,669	343
Total liabilities	24,518	18,300
Commitments and contingencies (Note 5)		
Stockholders' equity:		
Preferred stock, \$0.0001 par value: Authorized: 20,000,000 shares; Issued and outstanding: no shares as of March 31, 2016 and December 31, 2015		
Common stock, \$0.0001 par value: Authorized: 400,000,000 shares; Issued and outstanding: 32,025,864 and 31,935,121 and shares as of March 31, 2016 and December 31, 2015, respectively		
	4	4
Accumulated other comprehensive gain (loss)	28	(15)
Additional paid-in capital	315,028	313,349
Accumulated deficit	(200,552)	(174,962)
Total stockholders' equity	114,508	138,376
Total liabilities and stockholders' equity	\$ 139,026	\$ 156,676

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See accompanying notes to unaudited condensed consolidated financial statements.

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INVITAE CORPORATION

Condensed Consolidated Statements of Operations

(In thousands, except share and per share amounts)

(Unaudited)

	Three Months Ended March 31,	
	2016	2015
Revenue	\$ 3,955	\$ 1,229
Costs and operating expenses:		
Cost of revenue	5,987	3,199
Research and development	10,660	8,455
Selling and marketing	7,043	4,740
General and administrative	5,569	3,440
Total costs and operating expenses	29,259	19,834
Loss from operations	(25,304)	(18,605)
Other income (expense), net	(202)	(4)
Interest expense	(84)	(28)
Net loss	\$ (25,590)	\$ (18,637)
Net loss per share, basic and diluted	\$ (0.80)	\$ (1.09)
Shares used in computing net loss per share, basic and diluted	31,964,541	17,063,463

See accompanying notes to unaudited condensed consolidated financial statements.

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INVITAE CORPORATION

Condensed Consolidated Statements of Comprehensive Loss

(In thousands)

(Unaudited)

	Three Months Ended		March 31,	
	2016		2015	
Net loss	\$	(25,590)	\$	(18,637)
Other comprehensive gain (loss):				
Unrealized gain (loss) on available-for-sale marketable securities, net of tax		43		(26)
Comprehensive loss	\$	(25,547)	\$	(18,663)

See accompanying notes to unaudited condensed consolidated financial statements.

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INVITAE CORPORATION

Condensed Consolidated Statements of Cash Flows

(In thousands)

(Unaudited)

	Three Months Ended March 31,	
	2016	2015
Cash flows from operating activities:		
Net loss	\$ (25,590)	\$ (18,637)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation and amortization	1,555	1,017
Stock-based compensation	1,465	538
Amortization of premium on marketable securities	91	65
Loss on disposal of assets	186	15
Changes in operating assets and liabilities:		
Prepaid expenses and other current assets	(1,969)	(1,273)
Other assets	162	380
Accounts payable	(394)	(1,775)
Accrued expenses and other liabilities	506	1,487
Net cash used in operating activities	(23,988)	(18,183)
Cash flows from investing activities:		
Purchase of marketable securities	(60,319)	(130,841)
Proceeds from maturities of marketable securities	37,500	4,500
Purchases of property and equipment	(1,037)	(1,116)
Net cash used in investing activities	(23,856)	(127,457)
Cash flows from financing activities:		
Proceeds from issuance of common stock upon initial public offering, net of issuance costs		107,147
Proceeds from exercise of stock options	210	57
Proceeds from loan agreement, net of financing costs	2,500	
Loan payments	(386)	
Capital lease principal payments	(404)	(327)
Net cash provided by financing activities	1,920	106,877
Net decrease in cash and cash equivalents	(45,924)	(38,763)
Cash and cash equivalents at beginning of period	73,238	107,027
Cash and cash equivalents at end of period	\$ 27,314	\$ 68,264
Supplemental cash flow information:		
Interest paid	\$ 84	\$ 27

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Supplemental cash flow information of non-cash investing and financing activities:

Conversion of convertible preferred stock to common stock	\$		\$	202,305
Purchases of property and equipment in accounts payable and accrued liabilities	\$	410	\$	2,424

See accompanying notes to unaudited condensed consolidated financial statements.

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INVITAE CORPORATION

Notes to Condensed Consolidated Financial Statements

1. Organization and description of business

Invitae Corporation (the Company) was incorporated in the state of Delaware on January 13, 2010, as Locus Development, Inc. and changed its name to Invitae Corporation in 2012. The Company utilizes an integrated portfolio of laboratory processes, software tools and informatics capabilities to process DNA-containing samples, analyze information about patient-specific genetic variation and generate test reports for clinicians and their patients. The Company's laboratory is located in San Francisco, California. The Company's current product is a diagnostic test that utilizes assays of over 1,000 genes that can be used for multiple indications. The test includes multiple genes associated with hereditary cancer, neurological disorders, cardiovascular disorders and other hereditary conditions. The Company operates in one segment.

Initial public offering

In February 2015, the Company completed an initial public offering (IPO) of its common stock. In connection with its IPO, the Company sold 7,302,500 shares of common stock at \$16.00 per share for aggregate net proceeds of \$105.7 million after underwriting discounts and commissions and offering expenses payable by the Company. This includes the exercise in full by the underwriters of their option to purchase up to 952,500 additional shares of common stock at the same price to cover over-allotments. Upon the closing of the IPO, all shares of convertible preferred stock then outstanding converted into 23,521,889 shares of common stock.

Upon the effectiveness of the Amended and Restated Certificate of Incorporation of the Company on February 12, 2015, the number of shares of capital stock the Company is authorized to issue was increased to 420,000,000 shares, of which 400,000,000 shares are common stock and 20,000,000 shares are preferred stock. Both the common stock and preferred stock have a par value of \$0.0001 per share. There were no shares of preferred stock outstanding at March 31, 2016 or December 31, 2015.

Basis of presentation

The accompanying unaudited condensed consolidated financial statements have been prepared in accordance with U.S. generally accepted accounting principles (U.S. GAAP) for interim financial information and in accordance with the instructions to Form 10-Q and Rule 10-01 of Regulation S-X. Accordingly, they do not include all of the information and footnotes required by generally accepted accounting principles for complete financial statements. The unaudited interim condensed consolidated financial statements have been prepared on the same basis as the annual financial statements. In the opinion of management, the accompanying unaudited condensed consolidated financial statements reflect all adjustments (consisting only of normal recurring adjustments) considered necessary for a fair presentation. The information included in this Quarterly Report on Form 10-Q should be read in conjunction with the audited financial statements and notes thereto included in the Company's Annual Report on Form 10-K for the year ended December 31, 2015. The results for the three months ended March 31, 2016 are not necessarily indicative of the results expected for the full fiscal year or any other periods.

2. Summary of significant accounting policies

Principles of consolidation

The unaudited condensed consolidated financial statements include the accounts of the Company and its wholly owned subsidiaries. All intercompany balances and transactions have been eliminated in consolidation.

Use of estimates

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent liabilities as of the date of the financial statements and the reported amounts of revenue and expenses during the reporting period. The Company believes judgment is involved in determining revenue recognition; the recoverability of long-lived assets; the fair value of the Company's common stock prior to the IPO; stock-based compensation expense; and income tax uncertainties. The Company bases these estimates on historical and anticipated results, trends, and various other assumptions that the Company believes are reasonable under the circumstances, including assumptions as to future events. Actual results could differ materially from those estimates and assumptions.

Table of Contents***Concentrations of credit risk and other risks and uncertainties***

Financial instruments that potentially subject the Company to a concentration of credit risk consist of cash and cash equivalents. The Company's cash and cash equivalents are held by financial institutions in the United States and Chile. Such deposits may exceed federally insured limits.

At March 31, 2016, virtually all of the Company's revenue has been derived from sales of its diagnostic tests. Significant customers are those which represent 10% or more of the Company's total revenue for each year presented on the statements of operations. For each significant customer, revenue as a percentage of total revenue is as follows:

Customers	Three Months Ended	
	2016	March 31, 2015
Customer A	*%	14%

* Less than 10% of total revenue

Cash equivalents

The Company considers all highly liquid investments with original maturities of three months or less from the date of purchase to be cash equivalents. Cash equivalents consist primarily of amounts invested in money market funds and U.S government agency securities.

Marketable securities

All marketable securities have been classified as available-for-sale and are carried at estimated fair value as determined based upon quoted market prices or pricing models for similar securities. Management determines the appropriate classification of its marketable securities in debt securities at the time of purchase and reevaluates such designation at each balance sheet date. Short-term marketable securities have maturities less than 365 days at the balance sheet date. Unrealized gains and losses are excluded from earnings and are reported as a component of other comprehensive income (loss). Realized gains and losses and declines in fair value judged to be other than temporary, if any, on available-for-sale securities are included in interest and other income (expense), net. The cost of securities sold is based on the specific-identification method. Interest on marketable securities is included in interest and other income (expense), net.

Restricted cash

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Restricted cash consists of money market funds that serve as: collateral for a security deposit for the Company's lease agreement for a laboratory and headquarters entered into in September 2015; collateral for a credit card agreement at one of the Company's financial institutions; and for securing a letter of credit as collateral for the Company's Cambridge Massachusetts facility sublease agreement.

Internal-use software

The Company capitalizes third-party costs incurred in the application development stage to design and implement internal-use software. Maintenance and training costs relating to internal-use software are expensed as incurred. Capitalized internal-use software costs are recorded as property and equipment and are amortized over estimated useful lives of up to three years on a straight line basis. Amortization of capitalized internal-use software costs is recorded as sales and marketing expense.

During the three months ended March 31, 2016 and 2015, Company capitalized \$0 and \$750,000, respectively, of internal-use software development costs. Internal-use software amortization was \$330,000 and \$110,000 in the three months ended March 31, 2016 and 2015, respectively. The carrying value of capitalized internal-use software at was \$1.1 million and \$1.4 million at March 31, 2016 and December 31, 2015, respectively. The weighted average remaining useful life of capitalized internal-use software at March 31, 2016 was 10 months.

Leases

The Company rents its facilities under operating lease agreements and recognizes related rent expense on a straight-line basis over the term of the lease. Some of the lease agreements contain rent holidays, scheduled rent increases, lease incentives, and renewal options. Rent holidays and scheduled rent increases are included in the determination of rent expense to be recorded over the lease term. Lease incentives are recognized as a reduction of rent expense on a straight-line basis over the term of the lease. Renewals are

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not assumed in the determination of the lease term unless they are deemed to be reasonably assured at the inception of the lease. The Company recognizes rent expense beginning on the date it obtains the legal right to use and control the leased space.

Fair value of financial instruments

The Company's financial instruments consist principally of cash and cash equivalents, marketable securities, accounts payable, capital leases and debt relating to equipment financing. The carrying amounts of certain of these financial instruments, including cash and cash equivalents, and accounts payable, approximate fair value due to their short maturities. Based on borrowing rates available to the Company, the carrying value of capital leases approximates fair value.

See Note 4, "Fair value measurements" for further information on the fair value of the Company's financial instruments.

Revenue recognition

Revenue is generated from the sale of tests that provide analysis and associated interpretation of the sequencing of parts of the genome. Revenue associated with subsequent re-requisition services was de minimis for all periods presented.

Revenue is recognized when persuasive evidence of an arrangement exists; delivery has occurred or services have been rendered; the fee is fixed or determinable; and collectability is reasonably assured. The criterion for whether the fee is fixed or determinable and whether collectability is reasonably assured are based on management's judgments. When evaluating collectability, in situations where contracted reimbursement coverage does not exist, the Company considers whether the Company has sufficient history to reliably estimate a payer's individual payment patterns. The Company reviews the number of tests paid against the number of tests billed over at least several months of payment history and the payer's outstanding balance for unpaid tests to determine whether payments are being made at a consistently high percentage of tests billed and at appropriate amounts given the amount billed. For most payers, the Company has not been able to demonstrate a predictable pattern of collectability, and therefore recognizes revenue when payment is received. For payers who have demonstrated a consistent pattern of payment of tests billed at appropriate amounts, the Company recognizes revenue, at estimated realizable amounts, upon delivery of test results.

Cost of revenue

Cost of revenue reflects the aggregate costs incurred in delivering the genetic testing results to clinicians and includes expenses for personnel costs including stock-based compensation, materials and supplies, equipment and infrastructure expenses associated with testing and allocated overhead including rent, equipment depreciation and utilities. Costs associated with performing the Company's test are recorded as the test is processed regardless of whether and when revenue is recognized with respect to that test.

Income taxes

The Company uses the asset and liability method of accounting for income taxes. Under this method, deferred tax assets and liabilities are determined based on the differences between the financial reporting and the tax bases of assets and liabilities and are measured using the enacted tax rates and laws that will be in effect when the differences are expected to reverse. A valuation allowance is provided when it is more likely than not that some portion or all of a deferred tax asset will not be realized.

Stock-based compensation

The Company measures its stock-based payment awards made to employees and directors based on the estimated fair values of the awards and recognizes the compensation expense over the requisite service period. The Company uses the Black-Scholes option-pricing model to estimate the fair value of its stock options and employee stock purchase plan (ESPP) awards. The fair value of restricted stock unit (RSU) awards with time-based vesting terms is based on the grant date share price. Stock-based compensation expense is recognized using the straight-line method. Stock-based compensation expense is based on the value of the portion of stock-based payment awards that is ultimately expected to vest. As such, the Company's stock-based compensation is reduced for the estimated forfeitures at the date of grant and revised, if necessary, in subsequent periods if actual forfeitures differ from those estimates.

The Company accounts for compensation expense related to stock options granted to non-employees based on the fair values estimated using the Black-Scholes model. Stock options granted to non-employees are re-measured at each reporting date until the award is vested.

Foreign currency transactions

The Company uses the U.S. dollar as its functional currency for its subsidiary in Chile. Foreign currency assets and liabilities are re-measured into U.S. dollars using the end of period exchange rates except for nonmonetary assets and liabilities, which are re-measured using historical exchange rates. Expenses are re-measured using an average exchange rate for the respective period. Gains or losses from foreign currency transactions are included in other income (expense), net, on the consolidated statements of operations. Foreign currency transaction gains and losses have not been significant to the consolidated financial statements for all periods presented.

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Net loss per common share

Basic net loss per common share is calculated by dividing net loss by the weighted-average number of common shares outstanding during the period, without consideration of common stock equivalents. Diluted net loss per share is computed by dividing net loss by the weighted-average number of common share equivalents outstanding for the period determined using the treasury stock method. Potentially dilutive securities consisting of options to purchase common stock and RSUs are considered to be common stock equivalents and were excluded from the calculation of diluted net loss per share because their effect would be antidilutive for all periods presented. At March 31, 2016, the balance of shares subject to repurchase was zero, and therefore no shares subject to repurchase were excluded from the basic loss per share calculation for the three months ended March 31, 2016. Common shares subject to repurchase in the amount of 17,907 were excluded from weighted-average shares for the three months ended March 31, 2015.

Recent accounting pronouncements

In March 2016 the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) No. 2016-09, *Compensation - Stock Compensation (Topic 718): Improvements to Employee Share-Based Payment Accounting*, which simplifies accounting for share-based payment award transactions. ASU-2016-09 is effective for annual and interim periods beginning on or after December 15, 2016 and early adoption is permitted. The Company is evaluating the effect that ASU 2016-09 will have on its consolidated financial statements and related disclosures. The Company has not yet selected an implementation date nor has it determined the effect of the standard on its ongoing financial reporting.

In February 2016, the FASB issued ASU 2016-02, *Leases (Topic 842)*. Under the new guidance, lessees will be required to recognize a lease liability and a right-of-use asset for all leases (with the exception of short-term leases) at the commencement date. Lessor accounting under ASU 2016-02 is largely unchanged. ASU 2016-02 is effective for annual and interim periods beginning on or after December 15, 2018 and early adoption is permitted. Under ASU 2016-02, lessees (for capital and operating leases) and lessors (for sales-type, direct financing, and operating leases) must apply a modified retrospective transition approach for leases existing at, or entered into after, the beginning of the earliest comparative period presented in the financial statements. Lessees and lessors may not apply a full retrospective transition approach. The Company is evaluating the effect that ASU 2014-09 will have on its consolidated financial statements and related disclosures. The Company has not yet selected an implementation date nor has it determined the effect of the standard on its ongoing financial reporting.

In May, 2014, the FASB issued ASU 2014-09, *Revenue from Contracts with Customers* (ASU 2014-09), which requires an entity to recognize the amount of revenue to which it expects to be entitled for the transfer of promised goods or services to customers. ASU 2014-09 will replace most existing revenue recognition guidance in U.S. GAAP when it becomes effective. In August, 2015, the FASB issued ASU 2015-14, *Revenue from Contracts with Customers (Topic 606)*. ASU 2015-14 defers the effective date of ASU 2014-09 for public business entities by one year to annual reporting periods beginning after December 15, 2017. Therefore, the new standard will become effective for the Company on January 1, 2018 and early application is permitted for periods beginning on or after January 1, 2017. The standard permits the use of either the retrospective or cumulative effect transition method. The Company is evaluating the effect that ASU 2014-09 will have on its consolidated financial statements, related disclosures and ongoing financial reporting. The Company plans to implement ASU 2014-09 effective January 1, 2018 and has not yet determined a transition method.

In August 2014, the FASB issued ASU No. 2014-15 (Subtopic 205- 40), *Presentation of Financial Statements - Going Concern: Disclosure of Uncertainties about an Entity's Ability to Continue as a Going Concern* (ASU 2014-15), which provides guidance about management's responsibility to evaluate whether there is substantial doubt about the Company's ability to continue as a going concern and to provide related

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footnote disclosure. ASU 2014-15 will be effective in the fourth quarter of 2016. Early application is permitted. The adoption of this standard is not expected to have an effect on the Company's consolidated financial statements.

Table of Contents**3. Balance sheet components***Cash equivalents and marketable securities*

The following is a summary of cash equivalents and marketable securities (in thousands).

	March 31, 2016			
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value
Money market funds	\$ 9,774	\$	\$	\$ 9,774
U.S. treasury notes	16,534	11		16,545
U.S. government agency securities	59,989	19	(2)	60,006
	\$ 86,297	\$ 30	\$ (2)	\$ 86,325
Reported as:				
Cash equivalents				\$ 4,943
Restricted cash				4,831
Marketable securities				76,551
Total cash equivalents, restricted cash and marketable securities				\$ 86,325

	December 31, 2015			
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value
Money market funds	\$ 39,998	\$	\$	\$ 39,998
U.S. treasury notes	4,006			4,006
U.S. government agency securities	65,586	1	(16)	65,571
	\$ 109,590	\$ 1	\$ (16)	\$ 109,575
Reported as:				
Cash equivalents				\$ 50,964
Restricted cash				4,831
Marketable securities				53,780
Total cash equivalents, restricted cash and marketable securities				\$ 109,575

The following table summarizes the available-for-sale securities that were in an unrealized loss position as of March 31, 2016, having been in such a position for less than 12 months, and none having been deemed to be other-than-temporarily impaired (in thousands):

	Gross Unrealized Losses	Estimated Fair Value
U.S. government agency securities	\$ 2	\$ 8,406

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None of the available-for-sale securities held as of March 31, 2016 has been in a continuous unrealized loss position for more than one year. At March 31, 2016, unrealized losses on available-for-sale investments are not attributed to credit risk and are considered to be temporary. The Company believes that it is more-likely-than-not that investments in an unrealized loss position will be held until maturity or the recovery of the cost basis of the investment. To date, the Company has not recorded any impairment charges on marketable securities related to other-than-temporary declines in market value.

At March 31, 2016, the remaining contractual maturities of available-for-sale securities were less than one year. For the three months ended March 31, 2016, there were no realized gains or losses on available-for-sale securities.

Table of Contents***Property and equipment, net***

Property and equipment consisted of the following (in thousands):

	March 31, 2016	December 31, 2015
Leasehold improvements	\$ 2,521	\$ 2,548
Laboratory equipment	10,565	10,461
Equipment under capital lease	7,960	8,224
Computer equipment	2,488	2,397
Software	2,435	2,368
Furniture and fixtures	210	210
Automobiles	20	20
Construction-in-progress	1,603	1,202
Total property and equipment, gross	27,802	27,430
Accumulated depreciation and amortization	(9,989)	(8,721)
Total property and equipment, net	\$ 17,813	\$ 18,709

Depreciation and amortization expense was \$1.6 million and \$1.0 million for the three months ended March 31, 2016 and 2015, respectively.

Accrued liabilities

Accrued liabilities consisted of the following (in thousands):

	March 31, 2016	December 31, 2015
Accrued compensation and related expenses	\$ 1,826	\$ 2,307
Accrued laboratory materials purchases	397	426
Accrued professional services	278	272
Lease incentive obligation, current	517	
Other	1,223	1,248
Total accrued liabilities	\$ 4,241	\$ 4,253

Other long-term liabilities

Other long-term liabilities consisted of the following (in thousands):

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	March 31, 2016		December 31, 2015	
Lease incentive obligation, non-current	\$	4,735	\$	107
Deferred rent, non-current		800		98
Other non-current liabilities		134		138
Total accrued liabilities	\$	5,669	\$	343

4. Fair value measurements

Financial assets and liabilities are recorded at fair value. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability (an exit price) in an orderly transaction between market participants at the reporting date. The authoritative guidance establishes a three-level valuation hierarchy that prioritizes the inputs to valuation techniques used to measure fair value based upon whether such inputs are observable or unobservable. Observable inputs reflect market data obtained from independent sources, while unobservable inputs reflect market assumptions made by the reporting entity.

The three-level hierarchy for the inputs to valuation techniques is briefly summarized as follows:

Level 1 Observable inputs such as quoted prices (unadjusted) for identical instruments in active markets.

Level 2 Observable inputs such as quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in markets that are not active, or model-derived valuations whose significant inputs are observable.

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Level 3 Unobservable inputs that reflect the reporting entity's own assumptions.

The following tables set forth the fair value of the Company's consolidated financial instruments that were measured at fair value on a recurring basis as of March 31, 2016 and December 31, 2015 (in thousands):

	March 31, 2016			
	Level 1	Level 2	Level 3	Total
Financial assets:				
Money market funds	\$ 9,774	\$	\$	\$ 9,774
U.S. treasury notes	16,545			16,545
U.S. government agency securities		60,006		60,006
Total financial assets	\$ 26,319	\$ 60,006	\$	\$ 86,325

	December 31, 2015			
	Level 1	Level 2	Level 3	Total
Financial assets:				
Money market funds	\$ 39,998	\$	\$	\$ 39,998
U.S. treasury notes	4,006			4,006
U.S. government agency securities		65,571		65,571
Total financial assets	\$ 44,004	\$ 65,571	\$	\$ 109,575

The Company's debt securities of U.S. government agency entities are classified as Level 2 as they are valued based upon quoted market prices for similar instruments in active markets, quoted prices for identical or similar instruments in markets that are not active and model-based valuation techniques for which all significant inputs are observable in the market or can be corroborated by observable market data for substantially the full term of the assets. Where applicable these models project future cash flows and discount the future amounts to a present value using market-based observable inputs obtained from various third party data providers, including but not limited to, benchmark yields, interest rate curves, reported trades, broker/dealer quotes and reference data.

There were no transfers between Level 1 and Level 2 during the periods presented.

The fair value of the Company's outstanding debt is estimated using the net present value of future debt payments, discounted at an interest rate that is consistent with market interest rates, which is a Level 2 input. The carrying amount and the estimated fair value of the Company's outstanding debt at March 31, 2016 and December 31, 2015, are as follows (in thousands):

	March 31, 2016		December 31, 2015	
	Carrying Amount	Fair Value	Carrying Amount	Fair Value
Debt	\$ 9,154	\$ 8,996	\$ 7,040	\$ 6,952

5. Commitments and contingencies

Operating Leases

In September 2015, the Company entered into a lease agreement for a laboratory and headquarters in San Francisco, California. This lease expires in July 2026 and the Company may renew the lease for an additional ten years. The Company has determined the lease term to be a ten-year period expiring in 2026. The lease term commenced when the Company took occupancy of the facility in February 2016. In connection with the execution of the lease, the Company provided a security deposit of approximately \$4.6 million which is included in restricted cash in the Company's consolidated balance sheets. Minimum annual rent under the lease is subject to increases based on stated rental adjustment terms. In addition, per the terms of the lease, the Company will receive a \$5.2 million lease incentive in the form of reimbursement from the landlord for a portion of the costs of leasehold improvements the Company makes to the facility. The assets purchased with the lease incentive are included in property and equipment, net, in the Company's consolidated balance sheets and the lease incentive is recognized as a reduction of rental expense on a straight-line basis over the term of the lease. At March 31, 2016, approximately \$0.6 million of the incentive had been utilized by the Company. At March 31, 2016, aggregate future minimum lease payments for the new facility are approximately \$72.0 million.

In addition to the security deposit of approximately \$4.6 million for the new laboratory and headquarters facility, the Company has provided security deposits of \$1.5 million at March 31, 2016 and December 31, 2015, as collateral for other leases, which are included in other assets in the Company's consolidated balance sheets.

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Future minimum payments under non-cancelable operating leases as of March 31, 2016 are as follows (in thousands):

Year ending December 31,	Amounts	
2016 (remainder of year)	\$	5,362
2017		7,404
2018		7,273
2019		7,467
2020		7,071
Thereafter		44,239
Total minimum lease payments	\$	78,816

Rent expense was \$1.6 million and \$708,000 for the three months ended March 31, 2016 and 2015, respectively.

Equipment Financing

In July 2015, the Company entered into a Loan and Security Agreement (the "Loan Agreement") with a bank under which term loans for purchases of equipment up to an aggregate of \$15.0 million are available in tranches not to exceed \$2.0 million, other than the initial \$2.5 million tranche on the date of the Loan Agreement. The Company may request additional tranches to finance the purchase of equipment through December 31, 2016, subject to certain restrictions. The term loans under the Loan Agreement bear interest at a floating rate equal to 0.25% below the prime rate as published in the Wall Street Journal effective on the date the change in the prime rate becomes effective. The Company is required to repay the outstanding principal and accrued but unpaid interest on each tranche in equal monthly installments beginning one month after each advance and ending on July 17, 2020 (the "Term Date"). Any then-unpaid principal and interest on advances under the Loan Agreement are payable on the Term Date. The Company may, at its option, prepay the borrowings by paying the lender a prepayment premium.

The Company's obligations under the Loan Agreement are subject to covenants, including covenants to maintain a minimum liquidity level with the bank, and additional covenants limiting the Company's ability to dispose of assets, undergo a change in control, merge with or acquire other entities, incur debt, incur liens, pay dividends or other distributions to holders of its capital stock, repurchase stock and make investments, in each case subject to certain exceptions. At March 31, 2016, the Company was in compliance with all covenants under the Loan Agreement. The Company's obligations under the Loan Agreement are secured by a security interest on substantially all of its assets, excluding its intellectual property and certain other assets.

At March 31, 2016, obligations under the Loan Agreement were \$9.2 million. Debt issuance costs related to the Loan Agreement of \$47,000 were recorded as a direct deduction from the debt liability and are amortized to interest expense over the term of the Loan Agreement. Future payments under the Loan Agreement as of March 31, 2016 are as follows (in thousands):

Year ending December 31,	Amounts	
2016 (remainder of year)	\$	1,790
2017		2,332
2018		2,265
2019		2,198
2020		1,251

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Thereafter

Total remaining debt payments		9,836
Less: amount representing debt discount		(41)
Less: amount representing interest		(641)
Present value of remaining debt payments		9,154
Less: current portion		(2,113)
Total noncurrent debt obligation	\$	7,041

Capital leases

The Company has entered into various capital lease agreements to obtain laboratory equipment. The terms of the capital leases are typically three years with interest rates ranging from 3.8% to 4.3%. The leases are secured by the underlying equipment. The portion of the future payments designated as principal repayment was classified as a capital lease obligation on the consolidated balance sheets.

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Future payments under capital leases at March 31, 2016 are as follows (in thousands):

Year ending December 31,	Amounts	
2016 (remainder of year)	\$	1,256
2017		1,350
2018		269
Total capital lease obligations		2,875
Less: amount representing interest		(115)
Present value of net minimum capital lease payments		2,760
Less: current portion		(1,529)
Total noncurrent capital lease obligations	\$	1,231

Interest expense related to capital leases was \$32,000 and \$28,000 for the three months ended March 31, 2016 and 2015, respectively.

Property and equipment under capital leases was \$8.0 million and \$8.2 million as of March 31, 2016 and December 31, 2015, respectively. Accumulated depreciation and amortization, collectively, on these assets was \$3.0 million and \$2.8 million at March 31, 2016 and December 31, 2015, respectively.

Guarantees and indemnifications

As permitted under Delaware law and in accordance with the Company's bylaws, the Company indemnifies its officers and directors for certain events or occurrences while the officer or director is or was serving in such capacity. The maximum amount of potential future indemnification is unlimited; however, the Company maintains director and officer liability insurance. This insurance allows the transfer of the risk associated with the Company's exposure and may enable it to recover a portion of any future amounts paid. The Company believes the fair value of these indemnification agreements is minimal. Accordingly, the Company did not record any liabilities associated with these indemnification agreements at March 31, 2016 or December 31, 2015.

Contingencies

On September 16, 2015, GeneDx, Inc. and Bio-Reference Laboratories, Inc. filed an action against the Company in the U.S. District Court for the District of New Jersey. The Complaint alleges that the Company wrongfully solicited and hired employees away from the plaintiffs in order to acquire access to trade secrets and other confidential business information belonging to the plaintiffs. The Complaint alleges claims for relief based on legal theories of unfair competition, tortious interference with prospective economic advantage, tortious interference with contract, and trade secret misappropriation, and seeks injunctive relief; damages, including punitive damages; and attorneys' fees and costs. On October 22, 2015, the Company filed a motion to dismiss the action for lack of personal jurisdiction or, in the alternative, to transfer the action to the U.S. District Court for the Northern District of California. On November 13, 2015, the plaintiffs filed their First Amended Complaint. On December 14, 2015, the Company responded by again filing a motion to dismiss the action for lack of personal jurisdiction or, in the alternative, to transfer the action to the U.S. District Court for the Northern District of California. The parties negotiated the exchange of information regarding the issue of personal jurisdiction, and extended the plaintiffs' deadline to respond to the motion during that negotiation. The current due date for the plaintiffs' response is May 16, 2016. The Company believes the action is without merit and intends to defend itself vigorously.

The Company was not a party to any other material legal proceedings at March 31, 2016, or at the date of this report. The Company may from time to time become involved in various legal proceedings arising in the ordinary course of business, and the resolution of any such claims could be material.

6. Stock incentive plans

Stock incentive plans

In 2010, the Company adopted the 2010 Incentive Plan (the 2010 Plan). The 2010 Plan provides for the granting of stock-based awards to employees, directors, and consultants under terms and provisions established by the Board of Directors. Under the terms of the 2010 Plan, options may be granted at an exercise price not less than fair market value. For employees holding more than 10% of the voting rights of all classes of stock, the exercise prices for incentive and nonstatutory stock options must be at least 110% of fair market of the common stock on the grant date, as determined by the Board of Directors. The terms of options granted under the 2010 Plan may not exceed ten years.

In January 2015, the Company adopted the 2015 Stock Incentive Plan, (the 2015 Plan), which became effective upon the closing of the IPO. The 2015 Plan had 4,370,452 shares of common stock reserved for future issuance at the time of its effectiveness, which included 120,452 shares under the 2010 Plan which were transferred to the 2015 Plan upon effectiveness of the 2015 Plan. The 2015 Plan provides for automatic annual increases in shares available for grant, beginning on January 1, 2016 through January 1,

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2025. In addition, shares subject to awards under the 2010 Plan that are forfeited or terminated will be added to the 2015 Plan. The 2015 Plan provides for the grant of incentive stock options, nonstatutory stock options, restricted stock awards, stock units, stock appreciation rights and other forms of equity compensation, all of which may be granted to employees, including officers, non-employee directors and consultants. Additionally, the 2015 Plan provides for the grant of cash-based awards.

Options granted generally vest over a period of four years. Typically, the vesting schedule for options granted to newly hired employees provides that 1/4 of the award vests upon the first anniversary of the employee's date of hire, with the remainder of the award vesting monthly thereafter at a rate of 1/48 of the total shares subject to the option. All other options typically vest in equal monthly installments over the four-year vesting schedule.

RSUs generally vest over a period of three years. Typically, the vesting schedule for RSUs provides that one third of the award vests upon each anniversary of the grant date.

Activity under the 2010 Plan and the 2015 Plan is set forth below (in thousands, except share and per share amounts and years):

	Shares available for grant	Stock options outstanding	Weighted- average exercise price	Weighted- average remaining contractual life (years)	Aggregate intrinsic value
Balances at December 31, 2015	2,268,938	3,659,713	\$ 7.38	8.89	\$ 7,099
Additional shares reserved	1,277,442		\$		
Options granted	(1,173,963)	1,173,963	\$ 9.93		
Options cancelled	181,954	(181,954)	\$ 9.43		
Options exercised		(81,008)	\$ 2.55		
RSUs granted	(539,767)				
Balances at March 31, 2016	2,014,604	4,570,714	\$ 8.04	8.78	\$ 10,999
Options exercisable at March 31, 2016		992,668	\$ 4.65	6.62	\$ 5,758
Options vested and expected to vest at March 31, 2016		3,498,873	\$ 7.84	8.67	\$ 10,289

The aggregate intrinsic value is calculated as the difference between the exercise price of the underlying stock options and the fair value of the Company's common stock for stock options that were in-the-money.

The weighted-average fair value of options to purchase common stock granted was \$6.29 and \$10.78 in the three months ended March 31, 2016 and 2015, respectively. The weighted-average fair value of RSUs granted in the three months ended March 31, 2016 was \$10.00. No RSUs were granted in the three months ended March 31, 2015.

The fair value of options to purchase common stock vested was \$1,330,000 and \$484,000 in the three months ended March 31, 2016 and 2015, respectively.

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The intrinsic value of options to purchase common stock exercised was \$507,000 and \$364,000 in the three months ended March 31, 2016 and 2015, respectively.

The following table summarizes RSU activity for the three months ended March 31, 2016:

	Number of Shares		Weighted- Average Grant Date Fair Value
Balance at December 31, 2015	482,818	\$	10.71
RSUs granted	539,767		10.00
RSUs vested	(5,075)		10.94
RSUs cancelled	(18,673)		10.94
Balance at March 31, 2016	998,837	\$	10.32

2015 employee stock purchase plan

In January 2015, the Company adopted the 2015 Employee Stock Purchase Plan (the ESPP), which became effective upon the closing of the IPO. A total of 644,360 shares of common stock are reserved for issuance under the ESPP. Eligible employees may purchase common stock at 85% of the lesser of the fair market value of common stock on the purchase date or last trading day preceding the offering date. The ESPP provides for automatic annual increases in shares available for grant, beginning on January 1, 2016 and continuing through January 1, 2025. The initial ESPP purchase period commenced in November 2015.

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No shares of common stock were purchased pursuant to the ESPP in the three months ended March 31, 2016. At March 31, 2016, cash received from payroll deductions pursuant to the ESPP was \$732,000.

Stock-based compensation

The Company uses the grant date fair value of its common stock to value both employee and non-employee options when granted. The Company revalues non-employee options each reporting period using the fair market value of the Company's common stock as of the last day of each reporting period.

In determining the fair value of stock options and ESPP purchases, the Company uses the Black-Scholes option-pricing model and, for stock options, the assumptions discussed below. Each of these inputs is subjective and its determination generally requires significant judgment. The fair value of RSU awards with time-based vesting terms is based on the grant date share price.

Expected term The expected term represents the period that the Company's stock-based awards are expected to be outstanding and is determined using the simplified method (based on the midpoint between the vesting date and the end of the contractual term).

Expected volatility Because the Company was privately held until February 2015 and did not have any trading history for its common stock prior to its IPO, the expected volatility was estimated based on the average volatility for comparable publicly traded biopharmaceutical companies over a period equal to the expected term of the stock option grants. When selecting comparable publicly traded companies in a similar industry on which it has based its expected stock price volatility, the Company selected companies with comparable characteristics to it, including enterprise value, risk profiles, position within the industry, and with historical share price information sufficient to meet the expected life of the stock-based awards. The historical volatility data was computed using the daily closing prices for the selected companies' common stock during the equivalent period of the calculated expected term of the stock-based awards. The Company will continue to apply this process until a sufficient amount of historical information regarding the volatility of its own stock price becomes available.

Risk-free interest rate The risk-free interest rate is based on the U.S. Treasury zero coupon issues in effect at the time of grant for periods corresponding with the expected term of the option.

Dividend yield The Company has never paid dividends on its common stock and has no plans to pay dividends on its common stock. Therefore, the Company used an expected dividend yield of zero.

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The fair value of share-based payments for options granted to employees and directors was estimated on the date of grant using the Black-Scholes option-pricing valuation model based on the following assumptions:

	Three months ended,	
	March 31, 2016	March 31, 2015
Expected term (in years)	6.13	6.03
Expected volatility	71.05	83.80
Risk-free interest rate	1.34%	1.28%
Dividend yield		

Stock-based compensation related to stock options granted to non-employees is recognized as the stock options vest. The fair value of the stock options granted is calculated at each reporting date using the Black-Scholes option pricing model based on the following assumptions:

	Three months ended March 31,	
	2016	2015
Expected term (in years)	7.00-9.57	8.00-9.12
Expected volatility	71.05%	83.80%
Risk-free interest rate	1.44%-1.73%	1.71%-1.84%
Dividend yield		

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The following table summarizes stock-based compensation expense for the three months ended March 31, 2016 and 2015, included in the consolidated statements of operations (in thousands):

	Three months ended			
	March 31,		March 31,	
	2016	2015	2016	2015
Cost of revenue	\$	201	\$	76
Research and development		538		213
Selling and marketing		241		124
General and administrative		485		125
Total stock-based compensation expense	\$	1,465	\$	538

At March 31, 2016, unrecognized compensation expense related to unvested stock options, net of estimated forfeitures, was \$19.6 million, which the Company expects to recognize on a straight-line basis over a weighted-average period of 3.5 years. Unrecognized compensation expense related to RSUs at March 31, 2016 was \$9.5 million, which the Company expects to recognize on a straight-line basis over a weighted-average period of 2.8 years. There was no capitalized stock-based employee compensation as of March 31, 2016.

7. Net loss per common share

The following table presents the calculation of basic and diluted net loss per share for the three months ended March 31, 2016 and 2015 (in thousands, except share and per share amounts):

	Three months ended March 31,			
	2016		2015	
Net loss	\$	(25,590)	\$	(18,637)
Shares used in computing net loss per share, basic and diluted		31,964,541		17,063,463
Net loss per share, basic and diluted	\$	(0.80)	\$	(1.09)

The following outstanding shares of common stock equivalents have been excluded from diluted net loss per share for the three months ended March 31, 2016 and 2015 because their inclusion would be anti-dilutive:

	Three months ended	
	March 31,	
	2016	2015
Shares of common stock subject to outstanding options	4,570,714	1,997,410
Shares of common stock subject to outstanding RSUs	998,837	
Shares of common stock pursuant to ESPP	130,049	
Shares of common stock subject to unvested early exercise of outstanding options subject to repurchase		17,907
Total shares of common stock equivalents	5,699,600	2,015,317

8. Geographic information

Revenue by country is determined based on the billing address of the customer. The following presents revenue by country for the three months ended March 31, 2016 and 2015 (in thousands):

	Three Months Ended			
	2016		2015	
		March 31,		
United States	\$	2,964	\$	974
Canada		782		125
Rest of world		209		130
Total revenue	\$	3,955	\$	1,229

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Long-lived assets, net, by location are summarized as follows (in thousands):

	March 31, 2016	December 31, 2015
United States	\$ 16,731	\$ 17,180
Chile	1,082	1,529
Total long-lived assets, net	\$ 17,813	\$ 18,709

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ITEM 2. Management's Discussion and Analysis of Financial Condition and Results of Operations.

The following discussion of our financial condition and results of operations should be read in conjunction with our condensed consolidated financial statements and the related notes included in Item 1 of Part I of this report, and together with our audited consolidated financial statements and the related notes included in our Annual Report on Form 10-K for the year ended December 31, 2015. Historic results are not necessarily indicative of future results.

This report contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. All statements in this report other than statements of historical fact, including statements identified by words such as believe, may, will, estimate, continue, anticipate, intend, expect and similar expressions, are forward- looking statements. Forward-looking statements include, but are not limited to, statements about:

- our views regarding the future of genetic testing and its role in mainstream medical practice;
- strategic plans for our business, products and technology, including our ability to expand our assay and develop new assays while maintaining attractive pricing, further enhance our genetic testing process and the related user experience, build interest in and demand for our tests and attract potential partners;
- the implementation of our business model;
- the rate and degree of market acceptance of our tests and genetic testing generally;
- our ability to scale our infrastructure and operations in a cost- effective manner;
- the timing of and our ability to introduce improvements to our genetic testing platform and to expand our assay to include additional genes;
- our expectations with respect to future hiring;
- the timing and results of studies with respect to our tests;
- developments and projections relating to our competitors and our industry;
- the degree to which individuals will share genetic information generally, as well as share any related potential economic opportunities with us;
- our commercial plans, including our sales and marketing expectations;
- our ability to obtain and maintain adequate reimbursement for our tests;
- regulatory developments in the United States and foreign countries;

- our ability to retain key scientific or management personnel;
- our expectations regarding our ability to obtain and maintain intellectual property protection and not infringe on the rights of others;
- our expectations regarding the time during which we will be an emerging growth company under the JOBS Act;
- our ability to obtain funding for our operations;
- our financial performance; and
- our expectations regarding our future revenue, cost of revenue, operating expenses and capital expenditures, and our future capital requirements.

Forward-looking statements are subject to a number of risks and uncertainties that could cause actual results to differ materially from those expected. These risks and uncertainties include, but are not limited to, those risks discussed in Item 1A of Part II of this report. Although we believe that the expectations and assumptions reflected in the forward-looking statements are reasonable, we cannot guarantee future results, level of activity, performance or achievements. In addition, neither we nor any other person assumes responsibility for the accuracy and completeness of any of these forward-looking statements. Any forward-looking statements in this report speak only as of the date of this report. We expressly disclaim any obligation or undertaking to update any forward-looking statements.

This report contains statistical data and estimates that we obtained from industry publications and reports. These publications typically indicate that they have obtained their information from sources they believe to be reliable, but do not guarantee the accuracy and completeness of their information. Some data contained in this report is also based on our internal estimates. Although we have not independently verified the third-party data, we believe it to be reasonable.

In this report, all references to Invitae, we, us, our, or the company mean Invitae Corporation.

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Business overview

Our mission is to bring comprehensive genetic information into mainstream medical practice to improve the quality of healthcare for billions of people. Our goal is to aggregate most of the world's genetic tests into a single service with higher quality, faster turnaround time and lower pricing than many single gene tests and panel tests today. By aggregating large numbers of currently available genetic tests into a single service, we can achieve great economies of scale that allow us to not only provide primary single gene or multi-gene tests but also to generate and store additional genetic information on behalf of the patient for future use. We refer to the service of managing genetic information over the course of disease or the lifetime of a patient as genome management. In addition, as more individuals gain access to their genetic information, we believe that sharing genetic information will provide an economic opportunity for patients and us to participate in advancing the understanding and treatment of disease. We refer to this as the genome network.

We launched our first commercial offering in November 2013 with an offering of more than 200 genes. In October 2015, we expanded our test menu to more than 600 genes in production, offering tests for more than 120 disorders in cardiovascular, hereditary cancer, neurology, pediatrics and other rare diseases. In March 2016, we further expanded our test menu with expanded panels for neurology, pediatrics, and rare diseases. We now have more than 1,000 genes in production. These additions to our test menu have resulted from a series of process improvements that have enabled us to continue to expand our test menu while maintaining our strategy of lowering the cost of genetic testing.

We have continued to experience rapid growth. For the three months ended March 31, 2016 and 2015 our revenue was \$4.0 million and \$1.2 million, respectively and we incurred net losses of \$25.6 million and \$18.6 million, respectively. At March 31, 2016, we had an accumulated deficit of \$200.6 million. We also increased our number of employees to 281 at March 31, 2016 from 207 on March 31, 2015. Our sales force grew to 30 at March 31, 2016 from 14 at March 31, 2015. We expect headcount will continue to increase in the remainder of 2016, as we add staff to support our anticipated growth.

Since our commercial launch through March 31, 2016, we have delivered approximately 32,500 billable tests. Sales of our tests have grown significantly from approximately 3,600 billable tests in the three months ended March 31, 2015 to approximately 9,700 billable tests in the three months ended March 31, 2016, which we believe is evidence that our value proposition is attractive to our clients. We estimate that the U.S. market for hereditary cancer tests is greater than \$650.0 million per year and thus represents a key growth opportunity for us. In addition, we have expanded our test menu to include the non-cancer test portion of our market, which we expect will drive additional sales volume. On a historical basis through March 31, 2016, approximately 24% of the billable tests we performed have been billable to institutions and patients, and the remainder have been billable to third-party payers. Many of the gene tests on our assay are tests for which private insurers reimburse. However, because we do not have reimbursement policies or contracts with very many private insurers, our claims for reimbursement from them may be denied upon submission, and we must appeal the claims. The appeals process is time consuming and expensive, and may not result in payment. Even if we are successful in achieving reimbursement, we may be paid at lower rates than if we were under contract with the third-party payer. When there is not a contracted rate for reimbursement, there is typically a greater co-insurance or co-payment requirement from the patient which may result in further delay or decreased likelihood of collection.

We intend to continue to invest aggressively in our business. In 2015 we entered into a lease agreement for a new laboratory and headquarters in San Francisco, California. This lease expires in July 2026 and aggregate future minimum lease payments for the new facility are approximately \$72.0 million. We will receive a \$5.2 million lease incentive in the form of reimbursement of payments from the landlord for a portion of the costs of leasehold improvements we make to the laboratory and headquarters facility. We expect to incur capital expenditures for the laboratory and headquarters facility of at least \$5.2 million.

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As a result of these and other factors, we expect to incur operating losses for the foreseeable future and may need to raise additional capital in order to fund our operations. If we are unable to achieve our revenue growth objectives and successfully manage our costs, we may not be able to achieve profitability.

In February and March 2016, we implemented a program to streamline our organization. This program involved employee terminations in Chile and the United States and the closure of our Chilean facility. Total costs related to this program were approximately \$0.9 million. At March 31, 2016, all affected employees had left the Company, and we expect future payments relating to this program, if any, will be immaterial. We expect to complete the closure of the Chilean facility in the second quarter of 2016.

We believe that the keys to our future growth will be to steadily increase the amount of genetic content we offer, consistently improve the client experience, drive physician and patient utilization of our website for ordering and delivery of results, increase the number of partners working with us to add value for our clients and consistently drive down the price per gene for genetic analysis and interpretation.

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Factors affecting our performance

Ability to lower the costs associated with performing our tests

Reducing the costs associated with performing our genetic tests is both a near-term focus and a strategic objective of ours. Over the long term we will need to reduce the cost of raw materials by improving the output efficiency of our assay and laboratory processes, modifying our platform-agnostic assay and laboratory processes to use materials and technologies that provide equal or greater quality at lower cost, improving how we manage our materials and negotiating favorable terms for our materials purchases. We also intend to design and implement hardware and software tools that will reduce personnel cost for both laboratory and clinical operations by increasing personnel efficiency and thus lowering labor costs per test.

Ability to expand our genetic content

As we reduce our costs, we intend to continue to expand our test menus by steadily releasing additional genetic content for the same or lower prices per test, ultimately leading to affordable whole genome services. The breadth and flexibility of our offering will be a critical factor in our ability to address new markets for genetic testing services. Both of these will be critical to our ability to continue to grow the volume of billable tests we deliver.

Number of billable tests

The growth in our genetic testing business is tied to the number of tests for which we bill third-party payers, institutions or patients, which we refer to as billable tests. We bill for our services following delivery of the billable test report derived from testing samples and interpreting the results. We incur the expenses associated with a test in the period in which the test is processed regardless of when payment is received with respect to that test. We believe the number of billable tests in any period is an important indicator of the growth in our business.

Success obtaining reimbursement

Our ability to increase the number of billable tests and our revenue will depend in part on our success achieving broad reimbursement coverage for our tests from third-party payers. Reimbursement may depend on a number of factors, including a payer's determination that a test is appropriate, medically necessary and cost-effective. Because each payer makes its own decision as to whether to establish a policy or enter into a contract to reimburse for our testing services, seeking these approvals is a time-consuming and costly process. In addition, clinicians may decide not to order our tests if the cost of the test is not covered by insurance. Because we require an ordering physician to requisition a test, our revenue growth also depends on our ability to successfully promote the adoption of our testing services and expand our base of ordering clinicians. We believe that establishing coverage from third-party payers, including the Centers for Medicare and Medicaid Services, or CMS, is an important factor in gaining adoption by ordering clinicians. We have received approval as a Medicare provider, which allows us to bill for our services to Medicare patients. In April 2016, we announced that CMS have begun providing payments for our multi-gene tests for hereditary breast cancer-related disorders. Further we have entered into reimbursement contracts with Blue Shield of California, SelectHealth, Capital

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Health Plan of Florida and Ohio State Health Plan. In October, 2015, we entered into a National Master Business Agreement (the Agreement) with Blue Cross and Blue Shield Association (BCBSA). The Agreement facilitates our ability to enter into supply agreements for our products and services with BCBSA affiliates, licensees and certain other entities. The Agreement does not provide for the sale of our products or services directly, nor is there any commitment by BCBSA to purchase products or services from us. In the first quarter of 2016 we secured additional payer contracts with regional BCBSA plans, providing coverage for patients in a total of five states, as well as those covered by the Federal Employee Plan. If we are not able to obtain and maintain adequate reimbursement from third-party payers for our testing services and expand the base of clinicians ordering our tests, we may not be able to effectively increase the number of billable tests or our revenue.

Investment in our business and timing of expenses

We plan to continue to invest significantly in our genetic testing, genome management and genome network business. We deploy state-of-the-art and costly technologies in our genetic testing services, and we intend to significantly scale our infrastructure, including our testing capacity and information systems. We also expect to incur software development costs as we seek to further automate our laboratory processes and our genetic interpretation and report sign-out procedures, to scale our customer service capabilities and to expand the functionality of our website. As part of our growth, we also plan to hire additional personnel, including software engineers, sales and marketing personnel, research and development personnel, medical specialists, biostatisticians and geneticists. We will also incur costs to build out our new laboratory and headquarters facility. In addition, we expect to incur ongoing expenses as a result of operating as a public company. The expenses we incur may vary significantly by quarter, as we focus on building out different aspects of our business.

How we recognize revenue

Our historical revenue has been recognized when cash is received. While we recognized \$0.5 million of revenue on an accrual basis in the three months ended March 31, 2016, we do not expect to recognize significant amounts of revenue on an accrual basis for some period of time. Until we achieve and maintain a predictable pattern of collection at a consistent payment amount from a

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large number of payers, we will continue to recognize the substantial majority of our revenue when cash is received. Because the timing and amount of cash payments received from payers is difficult to predict, we expect that our revenue will fluctuate significantly in any given quarter. We anticipate that the number of payers for whom we recognize revenue upon delivery of test results will increase in the future.

For the three months ended March 31, 2016 and 2015, amounts billed for tests delivered totaled \$11.8 million and \$3.2 million, respectively. In the three months ended March 31, 2016, we recognized revenue of \$2.0 million related to amounts billed for tests delivered during 2016 and \$1.8 million related to amounts billed for tests delivered during 2015. Of the total revenue recognized for the three months ended March 31, 2016 of \$4.0 million, \$3.5 million was recognized upon cash receipt, and the remainder was recognized on an accrual basis. It is difficult to predict future revenue from previously delivered but unpaid tests. Accordingly, we cannot provide any assurance as to when, if ever, or to what extent any of these amounts will be collected. Because we are in the early stages of commercializing our tests, we have had limited payment and collection history. Notwithstanding our efforts to obtain payment for these tests, payers may deny our claims, in whole or in part, and we may never receive revenue from any previously delivered but unpaid tests. Revenue from these tests, if any, may not be equal to the billed amount due to a number of factors, including differences in reimbursement rates, the amounts of patient co-payments, the existence of secondary payers and claims denials.

We incur and recognize expenses for tests in the period in which the test is conducted and recognize revenue for tests in the period in which our revenue recognition criteria are met. Accordingly, any revenue that we receive in respect of previously delivered but unpaid tests will favorably impact our results of operations in future periods.

Financial overview

Revenue

We generate revenue from the sale of our tests which provide the analysis and associated interpretation of the sequencing of parts of the genome. Clients are billed upon delivery of test results to the physician. For most of our customers, we do not have sufficient history of collection and are not yet able to determine a predictable pattern of collection, and therefore we currently recognize revenue when cash is received. Our ability to increase our revenue will depend on our ability to increase our market penetration, obtain contracted reimbursement coverage from third-party payers and increase the rate at which we are paid for tests performed.

Cost of revenue

Cost of revenue reflects the aggregate costs incurred in delivering test results to clinicians and includes expenses for materials and supplies, personnel costs, equipment and infrastructure expenses associated with testing and allocated overhead including rent, equipment depreciation and utilities. Costs associated with performing our test are recorded as the patient's sample is processed regardless of whether and when revenue is recognized with respect to that test. As a result, our cost of revenue as a percentage of revenue may vary significantly from period to period because we generally do not recognize revenue in the period in which costs are incurred. We expect cost of revenue to generally increase in line with the increase in the number of tests we perform. However, we expect that the cost per test will decrease over time due to the efficiencies we may gain as test volume increases and from automation and other cost reductions.

Operating expenses

Our operating expenses are classified into three categories: research and development, selling and marketing, and general and administrative. For each category, the largest component is personnel costs, which include salaries, employee benefit costs, bonuses, commissions, as applicable, and stock-based compensation expense.

Research and development

Research and development expenses represent costs incurred to develop our technology and future tests. These costs are principally for process development associated with our efforts to expand the number of genes we can evaluate in our tests, with our efforts to lower the cost of performing our test. In addition, we incur process development costs to further develop the software we use to operate our laboratory, analyze the data it generates, process customer orders, deliver reports and automate our business processes. These costs consist of personnel costs, laboratory supplies and equipment expenses, consulting costs and allocated overhead including rent, information technology, equipment depreciation and utilities.

We expense all research and development costs in the periods in which they are incurred. We expect our research and development expenses will increase slightly in 2016, compared to 2015, as we continue to invest in research and development activities related to developing additional tests and reducing testing costs.

Selling and marketing

Selling and marketing expenses consist of personnel costs, client service expenses, direct marketing expenses, educational and promotional expenses, market research and analysis, and allocated overhead including rent, information technology, equipment

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depreciation and utilities. We expect our selling expenses will increase in 2016, compared to 2015, primarily driven by the cost of hiring additional sales account executives associated with efforts to further penetrate the domestic market.

General and administrative

General and administrative expenses include executive, finance and accounting, legal and human resources functions. These expenses include personnel-related costs, audit and legal expenses, consulting costs, and allocated overhead including rent, information technology, equipment depreciation and utilities. We expect our general and administrative expenses will increase in 2016, compared to 2015, as we scale our operations and as we continue to incur expenses related to operating as a public company, including expenses related to compliance with the rules and regulations of the SEC and the New York Stock Exchange, additional insurance expenses, investor relations activities and other administration and professional services.

Other income (expense), net

Other income (expense), net, primarily consists of interest income and the net exchange gain/loss on foreign currency transactions related to the operations of our subsidiary in Chile. For the three months ended March 31, 2016, other income (expense), net also included losses on disposal of assets related to the closure of our Chilean facility.

Interest expense

Interest expense is attributable to our financing obligations under capital lease agreements and our Loan and Security Agreement.

Critical accounting policies and estimates

Management's discussion and analysis of our financial condition and results of operations is based on our consolidated financial statements, which have been prepared in accordance with U.S. generally accepted accounting principles, or U.S. GAAP. The preparation of these financial statements requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements, as well as the reported revenue generated and expenses incurred during the reporting periods. Our estimates are based on our historical experience and on various other factors that we believe are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions and any such differences may be material. We believe that the accounting policies discussed below are critical to understanding our historical and future performance, as these policies relate to the more significant areas involving management's judgments and estimates.

Revenue recognition

We generate revenue from delivery of test reports generated from our assays. Revenue is recognized when persuasive evidence of an arrangement exists; delivery has occurred or services have been rendered; the fee is fixed or determinable; and collectability is reasonably assured. The assessment of the fixed or determinable nature of the fees charged for testing performed and the collectability of those fees require significant judgment by management. When evaluating these criteria, we consider whether we have sufficient history to reliably estimate a payer's payment pattern. We review the number of tests paid against the number of tests billed over a period of at least several months and the payer's outstanding balance for unpaid tests to determine whether payments are being made at a consistently high percentage of tests billed and at appropriate amounts given the amount billed. For most payers, we have not been able to demonstrate a predictable pattern of collectability, and therefore recognize revenue when payment is received. For payers who have demonstrated a consistent pattern of payment of tests billed at appropriate amounts, we recognize revenue upon delivery of test results.

Deferred tax assets

We use the liability method of accounting for income taxes. Under this method, deferred tax assets and liabilities are determined based on the differences between the financial reporting and the tax bases of assets and liabilities and are measured using the enacted tax rates and laws that will be in effect when the differences are expected to reverse. We assess the likelihood that the resulting deferred tax assets will be realized. A valuation allowance is provided when it is more likely than not that some portion or all of a deferred tax asset will not be realized.

At March 31, 2016, our total gross deferred tax assets were \$60.7 million. Due to our lack of earnings history and uncertainties surrounding our ability to generate future taxable income, the net deferred tax assets have been fully offset by a valuation allowance. The deferred tax assets were primarily comprised of federal and state tax net operating losses and tax credit carryforwards. Utilization of the net operating loss and tax credit carryforwards may be subject to an annual limitation due to historical or future ownership percentage change rules provided by the Internal Revenue Code of 1986, and similar state provisions. The annual limitation may result in the expiration of certain net operating loss and tax credit carryforwards before their utilization.

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Stock-based compensation

Stock-based compensation expense is measured at the date of grant, based on the estimated fair value of the award and recognized as an expense over the employee's requisite service period on a straight-line basis. In determining the fair value of stock options and Employee Stock Purchase Plan (ESPP) purchases, we estimate the grant date fair value, and the resulting stock-based compensation expense, using the Black-Scholes option-pricing model. We estimate the grant date fair value of restricted stock unit (RSU) awards with time-based vesting terms based on the grant date share price.

We account for stock-based compensation arrangements with non-employees using a fair value approach. The fair value of these options is measured using the Black-Scholes option-pricing model reflecting the same assumptions as applied to employee options in each of the reported periods, other than the expected life, which is assumed to be the remaining contractual life of the option. The compensation expenses of these arrangements are subject to remeasurement over the vesting terms as earned.

For the three months ended March 31, 2016 and 2015, we recorded stock-based compensation expense of \$1.5 million and \$0.5 million, respectively. At March 31, 2016, our unrecognized stock-based compensation expense related to unvested stock options, net of estimated forfeitures, was \$19.6 million, which we expect to recognize over a weighted-average period of 3.5 years. Unrecognized compensation expense related to RSUs at March 31, 2016 was \$9.5 million which we expect to recognize on a straight-line basis over a weighted-average period of 2.8 years.

The Black-Scholes option-pricing model requires the use of highly subjective assumptions which determine the fair value of stock-based awards. These assumptions include:

Expected term The expected term represents the period that stock-based awards are expected to be outstanding. We used the simplified method to determine the expected term, which is based on the mid-point between the vesting date and the end of the contractual term.

Expected volatility Since we were privately held until our initial public offering in February 2015 and did not have any trading history for our common stock, the expected volatility was estimated based on the average volatility for comparable publicly traded life sciences, including molecular diagnostics, companies over a period equal to the expected term of the stock option grants. When selecting comparable publicly traded life sciences, including molecular diagnostics, companies on which we based our expected stock price volatility, we selected companies with comparable characteristics to us, including enterprise value, risk profiles, position within the industry, and with historical share price information sufficient to meet the expected life of the stock-based awards. The historical volatility data was computed using the daily closing prices for the selected companies' shares during the equivalent period of the calculated expected term of the stock-based awards. We will continue to apply this process until a sufficient amount of historical information regarding the volatility of our own stock price becomes available.

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Risk-free interest rate The risk-free interest rate is based on the U.S. Treasury zero coupon issues in effect at the time of grant for periods corresponding with the expected term of an option.

Dividend yield We have never paid dividends on our common stock and have no plans to pay dividends on our common stock. Therefore, we used an expected dividend yield of zero.

In addition to the Black-Scholes assumptions, we estimate our forfeiture rate based on an analysis of our actual forfeitures and will continue to evaluate the adequacy of the forfeiture rate based on actual forfeiture experience, analysis of employee turnover behavior, and other factors. The impact from any forfeiture rate adjustment would be recognized in full in the period of adjustment and if the actual number of future forfeitures differs from our estimates, we might be required to record adjustments to stock-based compensation in future periods.

Historically, for all periods prior to our initial public offering, the fair values of the shares of common stock underlying our share-based awards were estimated on each grant date by our board of directors. In order to determine the fair value of our common stock underlying option grants, our board of directors considered, among other things, contemporaneous valuations of our common stock prepared by an independent third-party valuation firm in accordance with the guidance provided by the American Institute of Certified Public Accountants Practice Guide, *Valuation of Privately-Held-Company Equity Securities Issued as Compensation*. Given the absence of a public trading market for our common stock, our board of directors exercised reasonable judgment and considered a number of objective and subjective factors to determine the best estimate of the fair value of our common stock, including our stage of development; progress of our research and development efforts; our operating and financial performance, including our levels of available capital resources; the rights, preferences and privileges of our convertible preferred stock relative to those of our common stock; sales of our convertible preferred stock in arms -length transactions; the valuation of publicly traded companies in our industry, as well as recently completed mergers and acquisitions of peer companies; equity market conditions affecting comparable public companies; and the lack of marketability of our common stock.

In determining a fair value for our common stock, we estimated the enterprise value of our business using the market approach or option pricing back-solve method. The estimated enterprise value was then allocated to the common stock using the Option Pricing Method, or OPM, and the Probability Weighted Expected Return Method, or PWERM, or the hybrid method. The

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hybrid method applied the PWERM utilizing the probability of two public offering exit scenarios with a low and high value, and the OPM was utilized in the remaining private scenario.

For valuations after the completion of our initial public offering, the fair value of each share of underlying common stock is the closing price of our common stock as reported on the date of grant.

Results of operations*Comparison of the three months ended March 31, 2016 and 2015 (in thousands except for percentage changes)*

	Three Months Ended		Dollar	%
	2016	March 31,		
		2015		
Revenue	\$ 3,955	\$ 1,229	\$ 2,726	222%
Operating expenses:				
Cost of revenue	5,987	3,199	2,788	87%
Research and development	10,660	8,455	2,205	26%
Selling and marketing	7,043	4,740	2,303	49%
General and administrative	5,569	3,440	2,129	62%
Total operating expenses	29,259	19,834	9,425	48%
Loss from operations	(25,534)	(18,605)	(6,699)	36%
Other income (expense), net	(202)	(4)	(198)	4,950%
Interest expense	(84)	(28)	(56)	200%
Net loss	\$ (25,590)	\$ (18,637)	\$ (6,953)	37%

Revenue

The increase in revenue of \$2.7 million for the three months ended March 31, 2016 compared to the same period in 2015 was due to increased test volume, which resulted in increased cash collections. Approximately \$1.8 million of revenue in the three months ended March 31, 2016 was from cash collections for tests delivered in 2015. We recorded \$0.5 million of revenue in the three months ended March 31, 2016 on an accrual basis.

Cost of revenue

The increase in the cost of revenue of \$2.8 million for the three months ended March 31, 2016 compared to the same period in 2015 was primarily due to costs associated with increased test volume. For the three months ended March 31, 2016, the number of billed test results delivered increased to approximately 9,700 from approximately 3,600 for the same period in 2015.

Reflecting the increased test volumes, allocated technology and facilities-related expenses increased by \$0.9 million. Personnel costs increased by \$0.7 million reflecting increased headcount and increased time spent processing revenue-generating tests as well as stock-based compensation and severance costs of \$0.1 million associated with the program to streamline our organization. Reagent and laboratory materials costs increased by \$0.6 million.

Research and development

The increase in research and development expenses of \$2.2 million for the three months ended March 31, 2016 compared to the same period in 2015 was primarily driven by costs related to the continued development of our assay platforms. Personnel costs increased by \$2.5 million reflecting additional headcount as well as stock-based compensation and severance costs of \$0.1 million associated with the program to streamline our organization. Outside consultant costs increased by \$0.4 million, principally for alternative research and development projects. These cost increases were partially offset by a decrease in costs of reagents and laboratory materials of \$0.5 million. Reagent and laboratory materials costs were lower in the three months ended March 31, 2016 as validation sequencing activity in the first quarter of 2015 was principally related to the expansion of our test menu introduced in October 2015.

Selling and marketing

The increase in selling and marketing expenses of \$2.3 million for the three months ended March 31, 2016 compared to the same period in 2015 was due primarily to increased personnel costs of \$1.9 million, primarily reflecting a \$1.1 million increase in compensation and benefits relating to an increase in headcount, increased sales commissions of \$0.6 million and stock-based compensation and severance costs of \$0.3 million associated with the program to streamline our organization. In addition, costs associated with software and software licenses increased by \$0.3 million and costs associated with website development increased by \$0.2 million as compared with the three months ended March 31, 2015.

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General and administrative

The increase in general and administrative expenses of \$2.1 million for the three months ended March 31, 2016 compared to the same period in 2015 was primarily due to an increase in personnel costs of \$1.1 million principally reflecting increased headcount but also including severance costs of \$0.2 million associated with the program to streamline our organization. Billings and collection costs increased by \$0.2 million, reflecting increased billing-related cash collections. Facilities costs increased by \$0.8 million reflecting new facilities leases executed late in the first quarter of 2015 and in subsequent periods. In the first quarter of 2016, we began recognizing rent expense for our new laboratory and headquarters facility in San Francisco. Rent expense relating to our new facility was \$0.5 million in the first quarter of 2016 and we recorded this cost entirely to general and administrative expense. We will continue to record all rent expense for our new facility to general and administrative expense until the facility is operational and occupied, which we expect to occur in the fourth quarter of 2016, at which time rent expense will be allocated to other departments based on usage by those departments.

Other income (expense), net

The net increase in other expense of \$0.2 million for the three months ended March 31, 2016 was principally due to losses on disposal of Chilean facility assets related to the program to streamline our organization.

Liquidity and capital resources

Liquidity and capital expenditures

We have incurred net losses since our inception. For the three months ended March 31, 2016 and 2015, we had net losses of \$25.6 million and \$18.6 million, respectively, and we expect to incur additional losses in the foreseeable future. At March 31, 2016, we had an accumulated deficit of \$200.6 million. To date, we have generated only limited revenue, and we may never achieve revenue sufficient to offset our expenses.

Since inception, our operations have been financed primarily by net proceeds of \$202.3 million from sales of our convertible preferred stock and net proceeds of approximately \$105.7 million from our initial public offering. In addition, we have entered into various capital lease agreements for an aggregate financing amount of \$8.2 million from inception through March 31, 2016 to obtain laboratory equipment. The terms of the capital leases are typically three years. Interest rates for currently outstanding capital leases range from 3.8% to 4.3% and the leases are secured by the underlying equipment.

In July 2015, we entered into a Loan and Security Agreement, or Loan Agreement, with a bank under which term loans for purchases of equipment up to an aggregate of \$15.0 million are available in tranches not to exceed \$2.0 million, other than the initial \$2.5 million tranche on the date of the Loan Agreement. We may request additional tranches to finance the purchase of equipment through December 31, 2016, subject to certain restrictions. The term loans under the Loan Agreement bear interest at a floating rate equal to 0.25% below the prime rate as published in the Wall Street Journal effective on the date the change in the prime rate becomes effective. We are required to repay the outstanding principal and accrued but unpaid interest on each tranche in equal monthly installments beginning one month after each advance and ending on

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July 17, 2020, or the Term Date. Any then-unpaid principal and interest on advances under the Loan Agreement are payable on the Term Date. We may, at our option, prepay the borrowings by paying the Bank a prepayment premium. At March 31, 2016, we had borrowed a total of \$10.0 million under the Loan Agreement and our outstanding balance payable to the lender at March 31, 2016 was \$9.2 million. Our obligations under the Loan Agreement are subject to covenants, including covenants to maintain a minimum liquidity level with the bank, and additional covenants limiting our ability to dispose of assets, undergo a change in control, merge with or acquire other entities, incur debt, incur liens, pay dividends or other distributions to holders of our capital stock, repurchase stock and make investments, in each case subject to certain exceptions. At March 31, 2016, we were in compliance with all covenants under the Loan Agreement. Our obligations under the Loan Agreement are secured by a security interest on substantially all of our assets, excluding our intellectual property and certain other assets.

We anticipate our capital expenditures for the full year 2016 will be approximately \$5.6 million and will be funded principally by advances under the Loan Agreement and reimbursement for a portion of the costs of leasehold improvements we plan to make to our new laboratory and headquarters facility. See Note 5, *Commitments and contingencies* in the Notes to Condensed Consolidated Financial Statements.

At March 31, 2016 and December 31, 2015, we had \$103.9 million and \$127.0 million, respectively, of cash, cash equivalents, and marketable securities.

Our primary uses of cash are to fund our operations as we continue to grow our business. Cash used to fund operating expenses is affected by the timing of when we pay expenses, as reflected in the change in our outstanding accounts payable and accrued expenses.

We believe that our existing cash and cash equivalents as of March 31, 2016 will be sufficient to meet our anticipated cash requirements for at least the next 12 months. However, we may in the future elect to finance operations by selling equity or debt

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securities. If we raise funds by issuing equity securities, dilution to stockholders may result. Any equity securities issued may also provide for rights, preferences or privileges senior to those of holders of our common stock. If we raise funds by issuing debt securities, these debt securities would have rights, preferences and privileges senior to those of holders of our common stock. The terms of debt securities or borrowings could impose significant restrictions on our operations. If additional funding is required, there can be no assurance that additional funds will be available to us on acceptable terms on a timely basis, if at all, or that we will generate sufficient cash from operations to adequately fund our operating needs or sustain profitability. If we are unable to raise additional capital or generate sufficient cash from operations to adequately fund our operations, we will need to curtail planned activities to reduce costs. Doing so will likely have an unfavorable effect on our ability to execute on our business plan.

The following table summarizes our cash flows for the three months ended March 31, 2016 and 2015:

	Three months Ended March 31,	
	2016	2015
	(in thousands)	
Cash used in operating activities	\$ (23,988)	\$ (18,183)
Cash used in investing activities	(23,856)	(127,457)
Cash provided by financing activities	1,920	106,877

Cash flows from operating activities

For the three months ended March 31, 2016, cash used in operating activities of \$24.0 million principally resulted from our net loss of \$25.6 million offset by non-cash charges of \$1.8 million for stock-based compensation and \$1.6 million for depreciation and amortization. The net effect on cash of changes in net operating assets was \$1.8 million and was principally due to the effects of increased balances of prepaid expenses and other assets and reduced accounts payable balances.

For the three months ended March 31, 2015, cash used in operating activities of \$18.2 million principally resulted from our net loss of \$18.6 million offset by non-cash charges of \$1.1 million for depreciation and amortization, and \$0.5 million for stock-based compensation. The change in net operating assets of \$1.2 million was primarily due to a decrease in accounts payable of \$1.8 million due to timing of payments to our vendors and an increase in prepaid expenses and other current assets of \$1.3 million related to increases in prepaid director and officer insurance cost and interest receivables related to our marketable securities placed in the first quarter of 2015. This was offset by an increase in accrued expenses and other liabilities of \$1.5 million due to the growth in our business and a decrease in other assets of \$0.4 million.

Cash flows from investing activities

For the three months ended March 31, 2016, cash used in investing activities of \$23.9 million was primarily due to purchases of marketable securities exceeding proceeds from sales and maturities of marketable securities by \$22.8 million and purchases of property and equipment of \$1.0 million.

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For the three months ended March 31, 2015, cash used in investing activities of \$127.5 million was primarily for the purchases of marketable securities of \$130.8 million and property and equipment of \$1.1 million, offset by proceeds from maturities of our marketable securities of \$4.5 million.

Cash flows from financing activities

Cash provided by financing activities for the three months ended March 31, 2016 of \$1.9 million consisted primarily of borrowings of \$2.5 million under the Loan Agreement, partially offset by loan payments of \$0.4 million and payments of \$0.4 million on our capital lease obligations.

Cash provided by financing activities for the three months ended March 31, 2015 was primarily from \$107.1 million of net proceeds from our initial public offering completed in February 2015, offset by payments of \$0.3 million on our capital lease obligations.

Contractual obligations

The following table summarizes our contractual obligations, including interest, as of March 31, 2016 (in thousands):

Contractual obligations:	Remainder of 2016	2017 and 2018	2019 and 2020	2021 and beyond	Total
Operating leases	\$ 5,362	\$ 14,677	\$ 14,538	\$ 44,239	\$ 78,816
Capital leases	1,256	1,619			2,875
Capital expenditure financing	1,790	4,597	3,449		9,836
Total	\$ 8,408	\$ 20,893	\$ 17,987	\$ 44,239	\$ 91,527

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In September 2015, we entered into a lease agreement for a new laboratory and headquarters in San Francisco, California. This lease expires in July 2026. In March 2015, we leased additional space in San Francisco and Oakland, California. The leases expire in April and June 2017, respectively. In April 2015, we leased additional space in Cambridge, Massachusetts; this lease expires in January 2018. See Note 5, Commitments and contingencies in the Notes to Condensed Consolidated Financial Statements.

In July 2015 we entered into the Loan Agreement to provide financing for future capital expenditures up to \$15.0 million through December 2016. See Note 5, Commitments and contingencies in the Notes to Condensed Consolidated Financial Statements.

Off-balance sheet arrangements

We have not entered into any off-balance sheet arrangements and do not have any holdings in variable interest entities.

Recent accounting pronouncements

See Recent accounting pronouncements in Note 1, Organization and description of business in the Notes to Consolidated Financial Statements for a discussion of recently adopted accounting pronouncements and accounting pronouncements not yet adopted, and their expected effect on our financial position and results of operations.

ITEM 3. Quantitative and Qualitative Disclosures About Market Risk.

We are exposed to market risks in the ordinary course of our business. These risks primarily relate to interest rates. We had equipment financing loan obligations of \$9.2 million at March 31, 2016, which resulted from loans for purchases of laboratory equipment pursuant to the Loan Agreement. These loans carry variable rates of interest. We had capital lease obligations of \$2.8 million as of March 31, 2016, which result from various capital lease agreements to obtain laboratory equipment. Our capital lease obligations carry fixed rates of interest. We had cash, cash equivalents, and marketable securities of \$103.9 million at March 31, 2016, which consisted of bank deposits, money market funds, U.S treasury notes, and U.S. government agency securities. Such interest-bearing instruments carry a degree of risk; however, because our investments are primarily short-term in duration, we have not been exposed to, nor do we anticipate being exposed to, material risks due to changes in interest rates. At March 31, 2016, a hypothetical 10% (100 basis points) increase in interest rates would have resulted in a decline in the fair value of our cash equivalents and portfolio of marketable securities of approximately \$0.3 million. Fluctuations in the value of our cash equivalents and portfolio of marketable securities caused by a change in interest rates (gains or losses on the carrying value) are recorded in other comprehensive gain (loss), and are realized only if we sell the underlying securities prior to maturity or declines in fair value are determined to be other-than-temporary.

We face foreign exchange risk as a result of entering into transactions denominated in currencies other than U.S. dollars (Chilean peso). Due to the uncertain timing of expected payments in foreign currencies, we do not utilize any forward exchange contracts. All foreign transactions settle on the applicable spot exchange basis at the time such payments are made. An adverse movement in foreign exchange rates could have a material effect on payments made to foreign suppliers and for license agreements. A hypothetical 10% change in foreign exchange rates during

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any of the periods presented would not have had a material impact on our financial statements. We expect our exposure to foreign exchange risk will be substantially eliminated as a result of the closure of our Chilean facility, which we expect to complete in the second quarter of 2016.

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ITEM 4. Controls and Procedures.

(a) Evaluation of disclosure controls and procedures

We maintain disclosure controls and procedures, as such term is defined in Rule 13a-15(e) under the Securities Exchange Act of 1934, or Exchange Act, that are designed to ensure that information required to be disclosed by us in reports that we file or submit under the Exchange Act is recorded, processed, summarized, and reported within the time periods specified in Securities and Exchange Commission rules and forms, and that such information is accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate, to allow timely decisions regarding required disclosure. In designing and evaluating our disclosure controls and procedures, management recognized that disclosure controls and procedures, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the disclosure controls and procedures are met. Our disclosure controls and procedures have been designed to meet reasonable assurance standards. Additionally, in designing disclosure controls and procedures, our management necessarily was required to apply its judgment in evaluating the cost-benefit relationship of possible disclosure controls and procedures. The design of any disclosure controls and procedures also is based in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions.

Based on their evaluation as of the end of the period covered by this Quarterly Report on Form 10-Q, our Chief Executive Officer (our principal executive officer) and Chief Financial Officer (our principal financial officer) have concluded that, as of such date, our disclosure controls and procedures were effective at the reasonable assurance level.

(b) Changes in internal control over financial reporting

During the quarterly period covered by this Form 10-Q, there were no changes in our internal control over financial reporting that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

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PART II Other Information

ITEM 1. Legal Proceedings.

On September 16, 2015, GeneDx, Inc. and Bio-Reference Laboratories, Inc. filed an action against us in the U.S. District Court for the District of New Jersey. The Complaint alleges that we wrongfully solicited and hired employees away from the plaintiffs in order to acquire access to trade secrets and other confidential business information belonging to the plaintiffs. The Complaint alleges claims for relief based on legal theories of unfair competition, tortious interference with prospective economic advantage, tortious interference with contract, and trade secret misappropriation, and seeks injunctive relief; damages, including punitive damages; and attorneys' fees and costs. On October 22, 2015, we filed a motion to dismiss the action for lack of personal jurisdiction or, in the alternative, to transfer the action to the U.S. District Court for the Northern District of California. On November 13, 2015, the plaintiffs filed their First Amended Complaint. On December 14, 2015, we responded by again filing a motion to dismiss the action for lack of personal jurisdiction or, in the alternative, to transfer the action to the U.S. District Court for the Northern District of California. The parties negotiated the exchange of information regarding the issue of personal jurisdiction, and extended the plaintiffs' deadline to respond to the motion pending the outcome of that negotiation. The current due date for the plaintiffs' response is May 16, 2016. We believe the action is without merit and intend to defend ourselves vigorously.

We are not a party to any other material legal proceedings on the date of this report. We may from time to time become involved in legal proceedings arising in the ordinary course of business, and the resolution of any such claims could be material.

ITEM 1A. Risk Factors.

Risks related to our business and strategy

We are an early-stage company with a history of losses, we expect to incur significant losses for the foreseeable future, and we may not be able to achieve or sustain profitability.

We have incurred substantial losses since our inception. For the three months ended March 31, 2016 and 2015, we had net losses of \$25.6 million and \$18.6 million, respectively. At March 31, 2016, we had an accumulated deficit of \$200.6 million. To date, we have generated limited revenue, and we may never achieve revenue sufficient to offset our expenses. In addition, we expect to continue to incur significant losses for the foreseeable future, and we expect these losses to increase as we focus on scaling our business and operations. Our prior losses and expected future losses have had and will continue to have an adverse effect on our stockholders' equity and working capital. Our failure to achieve and sustain profitability in the future would negatively affect our business, financial condition, results of operations and cash flows, and could cause the market price of our common stock to decline.

We began operations in January 2010, and commercially launched our initial assay in late November 2013; accordingly, we have only a limited operating history upon which you can evaluate our business and prospects. Our limited commercial history makes it difficult to evaluate our current business and makes predictions about our future results, prospects or viability subject to significant uncertainty. Our prospects must be

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considered in light of the risks and difficulties frequently encountered by companies in their early stage of development, particularly companies in new and rapidly evolving markets such as ours. These risks include an evolving and unpredictable business model and the management of growth. To address these risks, we must, among other things, increase our customer base, implement and successfully execute our business and marketing strategy, continue to expand, automate and upgrade our laboratory, technology and data systems, obtain coverage and reimbursement by healthcare payers such as Medicare and private health insurers, provide rapid test turnaround times with accurate results at low prices, provide superior customer service, respond to competitive developments and attract, retain and motivate qualified personnel. We cannot assure you that we will be successful in addressing these risks, and the failure to do so could have a material adverse effect on our business, prospects, financial condition and results of operations.

We will need to scale our infrastructure in advance of demand for our tests, and our failure to generate sufficient demand for our tests would have a negative impact on our business and our ability to attain profitability.

Our success will depend in large part on our ability to extend our market position, to provide customers with high quality test reports quickly and at a lower price than our competitors, and to achieve sufficient test volume to realize economies of scale. In order to execute our business model, we intend to continue to invest heavily in order to significantly scale our infrastructure, including our testing capacity and information systems, expand our customer service, billing and systems processes and enhance our internal quality assurance program. We entered into a lease agreement for a new laboratory and headquarters in San Francisco, California and we are in the process of building out our new laboratory. We will also need to hire and retain sufficient numbers of skilled personnel, including geneticists, biostatisticians, certified laboratory scientists and other scientific and technical personnel to process and interpret our genetic tests. We expect that much of this growth will be in advance of demand for our tests. Our current and future expense levels are to a large extent fixed and are largely based on our investment plans and our estimates of future revenue. Because the timing and amount of revenue from our tests is difficult to forecast, when revenue does not meet our expectations we may not be able to adjust our spending promptly or reduce our spending to levels commensurate with our revenue. Even if we are able to

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successfully scale our infrastructure and operations, we cannot assure you that demand for our tests will increase at levels consistent with the growth of our infrastructure. If we fail to generate demand commensurate with this growth or if we fail to scale our infrastructure sufficiently in advance of demand to successfully meet such demand, our business, prospects, financial condition and results of operations could be adversely affected.

If third-party payers, including managed care organizations, private health insurers and government health plans do not provide coverage and adequate reimbursement for our tests, our commercial success could be negatively affected.

Our ability to increase the number of billable tests and our revenue will depend on our success achieving broad reimbursement for our tests from third-party payers. Physicians may not order our tests unless third-party payers, such as managed care organizations, private health insurers and government healthcare programs, such as Medicare and Medicaid, cover and provide adequate reimbursement for a substantial portion of the price of our tests. Reimbursement by a payer may depend on a number of factors, including a payer's determination that a test is appropriate, medically necessary, and cost-effective.

Since each payer makes its own decision as to whether to establish a policy or enter into a contract to cover our tests, as well as the amount it will reimburse for a test, seeking these approvals is a time-consuming and costly process. In addition, the determination by a payer to cover and the amount it will reimburse for our tests will likely be made on an indication by indication basis. To date, we have obtained policy-level reimbursement approval or contractual reimbursement for some indications for our test from a small number of commercial third-party payers, and in April 2016, the Centers for Medicare and Medicaid Services began providing payments for our multi-gene tests for hereditary breast cancer-related disorders. We believe that establishing adequate reimbursement from Medicare is an important factor in gaining adoption from healthcare providers. Our claims for reimbursement from commercial payers may be denied upon submission, and we must appeal the claims. The appeals process is time consuming and expensive, and may not result in payment. In cases where there is not a contracted rate for reimbursement, there is typically a greater co-insurance or co-payment requirement from the patient which may result in further delay or decreased likelihood of collection.

We expect to continue to focus substantial resources on increasing adoption of, and coverage and reimbursement for, our current tests and any future tests we may develop. We believe it may take several years to achieve coverage and adequate contracted reimbursement with a majority of third-party payers. However, we cannot predict whether, under what circumstances, or at what payment levels payers will reimburse for our tests. If we fail to establish and maintain broad adoption of, and coverage and reimbursement for, our tests, our ability to generate revenue could be harmed and our future prospects and our business could suffer.

We face intense competition, which is likely to intensify further as existing competitors devote additional resources to, and new participants enter, the market. If we cannot compete successfully, we may be unable to increase our revenue or achieve and sustain profitability.

With the development of next generation sequencing, the clinical genetics market is becoming increasingly competitive, and we expect this competition to intensify in the future. We face competition from a variety of sources, including:

- dozens of relatively specialized competitors focused on inherited clinical genetics and gene sequencing, such as Ambry Genetics, Inc., Athena Diagnostics, Counsyl, GeneDx, a subsidiary of OPKO Health, Inc., Myriad

Genetics, Inc., or Myriad;

- a few large, established general testing companies with large market share and significant channel power, such as Laboratory Corporation of America Holdings and Quest Diagnostics Incorporated;
- a large number of clinical laboratories in an academic or healthcare provider setting that perform clinical genetic testing on behalf of their affiliated institutions and often sell and market more broadly; and
- a large number of new entrants into the market for genetic information ranging from informatics and analysis pipeline developers to focused, integrated providers of genetic tools and services for health and wellness including Illumina, Inc., who is also one of our suppliers.

Hospitals, academic medical centers and eventually physician practice groups and individual clinicians may also seek to perform at their own facilities the type of genetic testing we would otherwise perform for them. In this regard, continued development of equipment, reagents, and other materials as well as databases and interpretation services may enable broader direct participation in genetic testing and analysis.

Participants in closely related markets such as prenatal testing and clinical trial or companion diagnostic testing could converge on offerings that are competitive with the type of tests we perform. Instances where potential competitors are aligned with key suppliers or are themselves suppliers could provide such potential competitors with significant advantages.

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In addition, the biotechnology and genetic testing fields are intensely competitive both in terms of service and price, and continue to undergo significant consolidation, permitting larger clinical laboratory service providers to increase cost efficiencies and service levels, resulting in more intense competition.

We believe the principal competitive factors in our market are:

- breadth and depth of content;
- reliability;
- accessibility of results;
- turnaround time of testing results;
- price and quality of tests;
- coverage and reimbursement arrangements with third-party payers;
- convenience of testing;
- brand recognition of test provider;
- additional value-added services and informatics tools;
- client service; and

- quality of website content.

Many of our competitors and potential competitors have longer operating histories, larger customer bases, greater brand recognition and market penetration, higher margins on their tests, substantially greater financial, technological and research and development resources and selling and marketing capabilities, and more experience dealing with third-party payers. As a result, they may be able to respond more quickly to changes in customer requirements, devote greater resources to the development, promotion and sale of their tests than we do, or sell their tests at prices designed to win significant levels of market share. We may not be able to compete effectively against these organizations. Increased competition and cost-saving initiatives on the part of governmental entities and other third-party payers are likely to result in pricing pressures, which could harm our sales, profitability or ability to gain market share. In addition, competitors may be acquired by, receive investments from or enter into other commercial relationships with larger, well-established and well-financed companies as use of next generation sequencing for clinical diagnosis and preventative care increases. Certain of our competitors may be able to secure key inputs from vendors on more favorable terms, devote greater resources to marketing and promotional campaigns, adopt more aggressive pricing policies and devote substantially more resources to website and systems development than we can. In addition, companies or governments that control access to genetic testing through umbrella contracts or regional preferences could promote our competitors or prevent us from performing certain services. If we are unable to compete successfully against current and future competitors, we may be unable to increase market acceptance and sales of our tests, which could prevent us from increasing our revenue or achieving profitability and could cause our stock price to decline.

We may not be able to manage our future growth effectively, which could make it difficult to execute our business strategy.

Our expected future growth could create a strain on our organizational, administrative and operational infrastructure, including laboratory operations, quality control, customer service, marketing and sales, and management. We plan to move into a new laboratory and headquarters facility in the third quarter of 2016, which could also affect our business operations and our ability to perform our tests. We may not be able to maintain the quality of or expected turnaround times for our tests, or satisfy customer demand as it grows. Our ability to manage our growth properly will require us to continue to improve our operational, financial and management controls, as well as our reporting systems and procedures. We plan to implement new enterprise software systems in a number of areas affecting a broad range of business processes and functional areas. The time and resources required to implement these new systems is uncertain, and failure to complete these activities in a timely and efficient manner could adversely affect our operations. In addition, we plan to hire additional geneticists, biostatisticians, certified laboratory scientists and other scientific and technical personnel. If we are unable to manage our growth effectively, it may be difficult for us to execute our business strategy and our business could be harmed. Future growth in our business could also make it difficult for us to maintain our corporate culture.

Our inability to raise additional capital on acceptable terms in the future may limit our ability to develop and commercialize new tests and expand our operations.

We expect capital expenditures and operating expenses to increase over the next several years as we expand our infrastructure, commercial operations and research and development activities. The proceeds from our initial public offering will not

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be sufficient to fully fund our business and growth strategy. We may seek to raise additional capital through equity offerings, debt financings, collaborations or licensing arrangements. Additional funding may not be available to us on acceptable terms, or at all. If we raise funds by issuing equity securities, dilution to our stockholders would result. Any equity securities issued also may provide for rights, preferences or privileges senior to those of holders of our common stock. The terms of debt securities issued or borrowings, if available, could impose significant restrictions on our operations. Our obligations under our equipment financing Loan Agreement are subject to covenants, including covenants to maintain a minimum liquidity level with the bank, and additional covenants limiting our ability to dispose of assets, undergo a change in control, merge with or acquire other entities, incur debt, incur liens, pay dividends or other distributions to holders of our capital stock, repurchase stock and make investments, in each case subject to certain exceptions. The incurrence of additional indebtedness or the issuance of certain equity securities could result in increased fixed payment obligations and could also result in restrictive covenants, such as limitations on our ability to incur additional debt or issue additional equity, limitations on our ability to acquire or license intellectual property rights, and other operating restrictions that could adversely affect our ability to conduct our business. In addition, the issuance of additional equity securities by us, or the possibility of such issuance, may cause the market price of our common stock to decline. In the event that we enter into collaborations or licensing arrangements to raise capital, we may be required to accept unfavorable terms. These agreements may require that we relinquish or license to a third party on unfavorable terms our rights to tests we otherwise would seek to develop or commercialize ourselves, or reserve certain opportunities for future potential arrangements when we might be able to achieve more favorable terms. If we are not able to secure additional funding when needed, we may have to delay, reduce the scope of or eliminate one or more research and development programs or selling and marketing initiatives. In addition, we may have to work with a partner on one or more aspects of our tests or market development programs, which could lower the economic value of those tests or programs to our company.

We rely on highly skilled personnel in a broad array of disciplines and, if we are unable to hire, retain or motivate these individuals, or maintain our corporate culture, we may not be able to maintain the quality of our services or grow effectively.

Our performance, including our research and development programs and laboratory operations, largely depend on our continuing ability to identify, hire, develop, motivate, and retain highly skilled personnel for all areas of our organization, including scientists, biostatisticians and technicians. Competition in our industry for qualified employees is intense, and we may not be able to attract or retain qualified personnel in the future, including scientists, biostatisticians and technicians, due to the competition for qualified personnel among life science businesses as well as universities and public and private research institutions, particularly in the San Francisco Bay Area. In addition, our compensation arrangements, such as our equity award programs, may not always be successful in attracting new employees and retaining and motivating our existing employees. If we are not able to attract and retain the necessary personnel to accomplish our business objectives, we may experience constraints that could adversely affect our ability to scale our business, support our research and development efforts and our clinical laboratory. We believe that our corporate culture fosters innovation, creativity and teamwork. However, as our organization grows, we may find it increasingly difficult to maintain the beneficial aspects of our corporate culture. This could negatively impact our ability to retain and attract employees and our future success.

If we are not able to generate substantial demand of our tests, our commercial success will be negatively affected.

Our business model assumes that we will be able to generate significant test volume, and we may not succeed in driving clinical adoption of our test to achieve sufficient volumes. Inasmuch as detailed genetic data from broad-based testing panels such as our tests have only recently become available at relatively affordable prices, the pace and degree of clinical acceptance of the utility of such testing is uncertain. Specifically, it is uncertain how much genetic data will be accepted as necessary or useful, as well as how detailed that data should be, particularly since medical practitioners may have become accustomed to genetic testing that is specific to one or a few genes. Given the substantial amount of additional information available from a broad-based testing panel such as ours, there may be distrust as to the reliability of such information when compared with more limited and focused genetic tests. To generate demand for our tests, we will need to continue to make clinicians aware of the benefits of our tests, including the price, the breadth of our testing options, and the benefits of having additional genetic data available from which to make treatment decisions. Because broad-based testing panels are relatively new, it may be more difficult or take more time for us to expand clinical adoption of our assay beyond a relatively small number of early adopters. In addition, clinicians in other areas of medicine may not adopt genetic testing for hereditary disease as readily as it has been adopted in hereditary cancer and our efforts to sell our

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tests to clinicians outside of oncology may not be successful. A lack of or delay in clinical acceptance of broad-based panels such as our tests would negatively impact sales and market acceptance of our tests and limit our revenue growth and potential profitability. Genetic testing is expensive and many potential customers may be sensitive to pricing. In addition, potential customers may not adopt our tests if adequate reimbursement is not available, or if we are not able to maintain low prices relative to our competitors. If we are not able to generate demand for our tests at sufficient volume, or if it takes significantly more time to generate this demand than we anticipate, our business, prospects, financial condition and results of operations could be materially harmed.

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Our success will depend on our ability to use rapidly changing genetic data to interpret test results accurately and consistently, and our failure to do so would have an adverse effect on our operating results and business, harm our reputation and could result in substantial liabilities that exceed our resources.

Our success depends on our ability to provide reliable, high-quality tests that incorporate rapidly evolving information about the role of genes and gene variants in disease and clinically relevant outcomes associated with those variants. Errors, including if our tests fail to detect genomic variants with high accuracy, or mistakes, including if we fail to or incompletely or incorrectly identify the significance of gene variants, could have a significant adverse impact on our business. Hundreds of genes can be implicated in some disorders, and overlapping networks of genes and symptoms can be implicated in multiple conditions. As a result, a substantial amount of judgment is required in order to interpret testing results for an individual patient and to develop an appropriate patient report. We classify variants in accordance with published guidelines as benign, likely benign, variants of uncertain significance, likely pathogenic or pathogenic, and these guidelines are subject to change. In addition, it is our practice to offer support to clinicians and geneticists ordering our tests around which genes or panels to order as well as interpretation of genetic variants. We also rely on clinicians to interpret what we report and to incorporate specific information about an individual patient into the physician's treatment decision.

The marketing, sale and use of our genetic tests could subject us to liability for errors in, misunderstandings of, or inappropriate reliance on, information we provide to clinicians or geneticists, and lead to claims against us if someone were to allege that our test failed to perform as it was designed, if we failed to correctly interpret the test results, or if the ordering physician were to misinterpret test results or improperly rely on them when making a clinical decision. A product liability or professional liability claim could result in substantial damages and be costly and time-consuming for us to defend. Although we maintain liability insurance, including for errors and omissions, we cannot assure you that our insurance would fully protect us from the financial impact of defending against these types of claims or any judgments, fines or settlement costs arising out of any such claims. Any liability claim, including an errors and omissions liability claim, brought against us, with or without merit, could increase our insurance rates or prevent us from securing insurance coverage in the future. Additionally, any liability lawsuit could cause injury to our reputation or cause us to suspend sales of our tests. The occurrence of any of these events could have an adverse effect on our business, reputation and results of operations.

Our industry is subject to rapidly changing technology and new and increasing amounts of scientific data related to genes and genetic variants and their role in disease. Our failure to develop tests to keep pace with these changes could make us obsolete.

In recent years, there have been numerous advances in methods used to analyze very large amounts of genomic information and the role of genetics and gene variants in disease and treatment therapies. Our industry has and will continue to be characterized by rapid technological change, increasingly larger amounts of data, frequent new testing service introductions and evolving industry standards, all of which could make our tests obsolete. Our future success will also depend on our ability to keep pace with the evolving needs of our customers on a timely and cost-effective basis and to pursue new market opportunities that develop as a result of technological and scientific advances. Our tests could become obsolete unless we continually update our offerings to reflect new scientific knowledge about genes and genetic variations and their role in diseases and treatment therapies.

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

In the ordinary course of our business, we and our third-party billing and collections provider collect and store sensitive data, including legally protected health information, personally identifiable information, intellectual property and proprietary business information owned or controlled

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by ourselves or our customers, payers, and other parties. We manage and maintain our applications and data utilizing a combination of on-site systems, managed data center systems, and cloud-based data center systems. We also communicate sensitive patient data through our Invitae Family History Tool. These applications and data encompass a wide variety of business-critical information including research and development information, commercial information, and business and financial information. We face a number of risks relative to protecting this critical information, including loss of access risk, inappropriate disclosure, inappropriate modification, and the risk of our being unable to adequately monitor and modify our controls over our critical information.

The secure processing, storage, maintenance and transmission of this critical information are 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, and that of our third-party billing and collections provider, may be vulnerable to attacks by hackers or viruses or breached due to employee error, malfeasance, or other disruptions. Any such breach or interruption could compromise our networks and the information stored there could be accessed by unauthorized parties, publicly disclosed, lost, or stolen. Any such access, disclosure or other loss of information could result in legal claims or proceedings, liability under federal or state laws that protect the privacy of personal information, such as the Health Insurance Portability and Accountability Act of 1996, or HIPAA, the Health Information Technology for Economic and Clinical Health Act, or HITECH, and regulatory penalties. Although we have implemented security measures and a formal, dedicated enterprise security program to prevent unauthorized access to patient data, our Invitae Family History Tool is currently accessible through our

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online portal and through our mobile applications, and there is no guarantee we can protect our online portal or our mobile applications from breach. Unauthorized access, loss or dissemination could also disrupt our operations (including our ability to conduct our analyses, provide test results, bill payers or patients, process claims and appeals, provide customer assistance, conduct research and development activities, collect, process, and prepare company financial information, provide information about our tests and other patient and physician education and outreach efforts through our website, and manage the administrative aspects of our business) and damage our reputation, any of which could adversely affect our business.

Penalties for failure to comply with a requirement of HIPAA and HITECH vary significantly, and include civil monetary penalties of up to \$1.5 million per calendar year for each provision of HIPAA that is violated. A person who knowingly obtains or discloses individually identifiable health information in violation of HIPAA may face a criminal penalty of up to \$50,000 and up to one-year imprisonment. The criminal penalties increase if the wrongful conduct involves false pretenses or the intent to sell, transfer, or use identifiable health information for commercial advantage, personal gain, or malicious harm.

In addition, the interpretation and application of consumer, health-related, and data protection laws in the United States, Europe and elsewhere are often uncertain, contradictory, and in flux. In addition, in October 2015, the European Court of Justice invalidated a safe harbor agreement between the United States and European Union member states which addressed how many U.S. companies handle personal information of their European customers. In October 2015, the Court of Justice of the European Union declared the Safe Harbor invalid. In February 2016, the European Commission announced an agreement with the U. S. Department of Commerce to replace the invalidated Safe Harbor agreement on transatlantic data flows with a new E.U.-U.S. Privacy Shield. Nevertheless, legal uncertainty remains concerning E.U.-to-U.S. data transfers. The Privacy Shield will not be effective until it is approved by the E.U.'s 28 member states. Laws governing data privacy and security are constantly evolving. In addition, it is possible that laws may be interpreted and applied in a manner that is inconsistent with our practices. If so, this could result in government-imposed fines or orders requiring that we change our practices, which could adversely affect our business. In addition, these privacy regulations may differ from country to country, and may vary based on whether testing is performed in the United States or in the local country. Complying with these various laws could cause us to incur substantial costs or require us to change our business practices and compliance procedures in a manner adverse to our business. We can provide no assurance that we are or will remain in compliance with diverse privacy and security requirements in all of the jurisdictions in which we do business. Failure to comply with privacy and security requirements could result in civil or criminal penalties, which could have a material adverse effect on our business.

We have limited experience in marketing and selling our tests, and our success will depend in part on our ability to generate sales using a relatively small internal sales team and through alternative marketing strategies.

We have limited experience marketing and selling our tests, which we began selling in late 2013. We may not be able to market or sell our current tests and any future tests we may develop effectively enough to drive demand sufficient to support our planned growth. We currently sell our tests in the United States through a relatively small internal sales force and outside the United States with the assistance of distributors. Historically, our sales efforts have been focused primarily on hereditary cancer and our efforts to sell our tests to clinicians outside of oncology may not be successful, or may be difficult to do successfully without significant additional selling and marketing efforts and expense. As part of our strategy to reduce the cost of genetic testing, we will need to maintain our selling and marketing expenses at levels that are lower than many of our competitors through the use of focused sales efforts. Our future sales will depend in large part on our ability to develop and substantially expand awareness of our company and our tests through alternative strategies including through education of key opinion leaders, through social media-related and online outreach, education and marketing efforts, and through focused channel partner strategies designed to drive demand for our tests. We have limited experience implementing these types of alternative marketing efforts. We may not be able to drive sufficient levels of revenue using these sales and marketing methods and strategies necessary to support our planned growth, and our failure to do so could limit our revenue and potential profitability.

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Outside the United States we use and intend to continue to use distributors to assist with sales, logistics, education, and customer support. Identifying, qualifying, and engaging distributors with local industry experience and knowledge will be necessary to effectively market and sell our tests outside the United States. We may not be successful in finding, attracting and retaining additional distributors, or we may not be able to enter into additional distribution arrangements on favorable terms. Sales practices utilized by our distributors that are locally acceptable may not comply with sales practices standards required under U.S. laws that apply to us, which could create additional compliance risk. If our sales and marketing efforts are not successful outside the United States, we may not achieve significant market acceptance for our tests outside the United States, which could materially and adversely impact our business operations.

We rely on a limited number of suppliers or, in some cases, sole suppliers, for some of our laboratory instruments and materials, and we may not be able to find replacements or immediately transition to alternative suppliers.

We rely on a limited number of suppliers, or, in some cases, sole suppliers, including Agilent Technologies, Inc., Illumina, Inc., Integrated DNA Technologies Incorporated, Qiagen N.V., Roche Holdings Ltd., and Thermo Fisher Scientific Inc. for

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certain laboratory substances used in the chemical reactions incorporated into our processes, which we refer to as reagents, as well as sequencers and other equipment and materials which we use in our laboratory operations. We do not have any short- or long-term agreements with our suppliers, and our suppliers could cease supplying these materials and equipment at any time, or fail to provide us with sufficient quantities of materials or materials that meet our specifications. Our laboratory operations could be interrupted if we encounter delays or difficulties in securing these reagents, sequencers or other equipment or materials, and if we cannot obtain an acceptable substitute. Any such interruption could significantly affect our business, financial condition, results of operations and reputation. We rely on Illumina as the sole supplier of next generation sequencers and associated reagents and as the sole provider of maintenance and repair services for these sequencers. Any disruption in Illumina's operations could impact our supply chain and laboratory operations as well as our ability to conduct our tests, and it could take a substantial amount of time to integrate replacement equipment into our laboratory operations.

We believe that there are only a few other manufacturers that are currently capable of supplying and servicing the equipment necessary for our laboratory operations, including sequencers and various associated reagents. The use of equipment or materials provided by these replacement suppliers would require us to alter our laboratory operations. Transitioning to a new supplier would be time consuming and expensive, may result in interruptions in our laboratory operations, could affect the performance specifications of our laboratory operations or could require that we revalidate our tests. We cannot assure you that we will be able to secure alternative equipment, reagents and other materials, and bring such equipment, reagents and materials on line and revalidate them without experiencing interruptions in our workflow. In the case of an alternative supplier for Illumina, we cannot assure you that replacement sequencers and associated reagents will be available or will meet our quality control and performance requirements for our laboratory operations. If we encounter delays or difficulties in securing, reconfiguring or revalidating the equipment and reagents we require for our tests, our business, financial condition, results of operations and reputation could be adversely affected.

If our laboratory in San Francisco becomes inoperable due to an earthquake or for any other reason, we will be unable to perform our tests and our business will be harmed.

We perform all of our tests at our laboratory in San Francisco, California. We plan to move into a new laboratory and headquarters facility in the third quarter of 2016, also located in San Francisco. We may experience delays or difficulties in transitioning to our new laboratory facility which could adversely affect our ability to perform our tests. Our laboratory and the equipment we use to perform our tests would be costly to replace and could require substantial lead time to replace and qualify for use. Our laboratory may be harmed or rendered inoperable by natural or man-made disasters, including earthquakes, flooding, fire and power outages, which may render it difficult or impossible for us to perform our tests for some period of time. The inability to perform our tests or the backlog that could develop if our laboratory is inoperable for even a short period of time may result in the loss of customers or harm our reputation. Although we maintain insurance for damage to our property and the disruption of our business, this insurance may not be sufficient to cover all of our potential losses and may not continue to be available to us on acceptable terms, if at all.

The loss of any member of our senior management team could adversely affect our business.

Our success depends in large part upon the skills, experience and performance of members of our executive management team and others in key leadership positions. The efforts of these persons will be critical to us as we continue to develop our technologies and test processes and focus on scaling our business. If we were to lose one or more key executives, we may experience difficulties in competing effectively, developing our technologies and implementing our business strategy. All of our executives and employees are at-will, which means that either we or the executive or employee may terminate their employment at any time. We do not carry key man insurance for any of our executives or employees. In addition, we do not have a long-term retention agreement or long-term equity incentives in place with our chief executive officer.

Development of new tests is a complex process, and we may be unable to commercialize new tests on a timely basis, or at all.

We cannot assure you that we will be able to develop and commercialize new tests on a timely basis. Before we can commercialize any new tests, we will need to expend significant funds in order to:

- conduct research and development;
- further develop and scale our laboratory processes; and
- further develop and scale our infrastructure to be able to analyze increasingly larger and more diverse amounts of data.

Our testing service development process involves risk, and development efforts may fail for many reasons, including:

- failure of any test to perform as expected;
- lack of validation or reference data; or
- failure to demonstrate utility of a test.

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As we develop tests, we will have to make significant investments in development, marketing and selling resources. In addition, competitors may develop and commercialize competing tests faster than we are able to do so.

We may acquire businesses or assets, form joint ventures or make investments in other companies or technologies that could harm our operating results, dilute our stockholders' ownership, or cause us to incur debt or significant expense.

As part of our business strategy, we may pursue acquisitions of complementary businesses or assets, as well as technology licensing arrangements. We also may pursue strategic alliances that leverage our core technology and industry experience to expand our offerings or distribution, or make investments in other companies. As an organization, we have limited experience with respect to acquisitions as well as the formation of strategic alliances and joint ventures. If we make any acquisitions in the future, we may not be able to integrate these acquisitions successfully into our existing business, and we could assume unknown or contingent liabilities. Any future acquisitions by us also could result in significant write-offs or the incurrence of debt and contingent liabilities, any of which could harm our operating results. Integration of an acquired company or business also may require management resources that otherwise would be available for ongoing development of our existing business. We may not identify or complete these transactions in a timely manner, on a cost-effective basis, or at all, and we may not realize the anticipated benefits of any acquisition, technology license, strategic alliance, joint venture or investment.

To finance any acquisitions or investments, we may choose to raise additional funds. If we raise funds by issuing equity securities, dilution to our stockholders could result. Any equity securities issued also may provide for rights, preferences or privileges senior to those of holders of our common stock. If we raise funds by issuing debt securities, these debt securities would have rights, preferences and privileges senior to those of holders of our common stock. The terms of debt securities issued or borrowings could impose significant restrictions on our operations. If we raise funds through collaborations and licensing arrangements, we might be required to relinquish significant rights to our technologies or products, or grant licenses on terms that are not favorable to us. If the price of our common stock is low or volatile, we may not be able to acquire other companies for stock. Alternatively, it may be necessary for us to raise additional funds for these activities through public or private financings. Additional funds may not be available on terms that are favorable to us, or at all. In addition, our Loan Agreement limits our ability to merge with or acquire other entities, incur debt, incur liens, pay dividends or other distributions to holders of our capital stock and make investments, in each case subject to certain exceptions.

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

We depend on information technology and telecommunications systems for significant elements of our operations, including our laboratory information management system, our bioinformatics analytical software systems, our database of information relating to genetic variations and their role in disease process and drug metabolism, our clinical report optimization systems, our customer-facing web-based software, our customer reporting, and our family history and risk assessment tools. We have installed, and expect to expand, a number of enterprise software systems that affect a broad range of business processes and functional areas, including for example, systems handling human resources, financial controls and reporting, customer relationship management, regulatory compliance, and other infrastructure operations. In addition, we intend to extend the capabilities of both our preventative and detective security controls by augmenting the monitoring and alerting functions, the network design, and the automatic countermeasure operations of our technical systems. These information technology and telecommunications systems support a variety of functions, including laboratory operations, test validation, sample tracking, quality control, customer service support, billing and reimbursement, research and development activities, scientific and medical curation, and general administrative activities. In addition, our third-party billing and collections provider depends upon technology and telecommunications systems provided by outside vendors.

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Information technology and telecommunications systems are vulnerable to damage from a variety of sources, including telecommunications or network failures, malicious human acts and natural disasters. Moreover, despite network security and back-up measures, some of our servers are potentially vulnerable to physical or electronic break-ins, computer viruses, and similar disruptive problems. Despite the precautionary measures we have taken to prevent unanticipated problems that could affect our information technology and telecommunications systems, failures or significant downtime of our information technology or telecommunications systems or those used by our third-party service providers could prevent us from conducting tests, preparing and providing reports to clinicians, billing payers, processing reimbursement appeals, handling physician or patient inquiries, conducting research and development activities, and managing the administrative aspects of our business. Any disruption or loss of information technology or telecommunications systems on which critical aspects of our operations depend could have an adverse effect on our business.

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

We currently have distribution arrangements in several countries, and our business strategy contemplates significant international expansion. We plan to enter into additional distribution relationships to conduct physician outreach activities and to

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develop and expand payer relationships outside of the United States. Doing business internationally involves a number of risks, including:

- multiple, conflicting and changing laws and regulations such as privacy regulations, tax laws, export and import restrictions, employment laws, regulatory requirements, and other governmental approvals, permits and licenses;
- failure by us or our distributors to obtain regulatory approvals for the use of our tests in various countries;
- complexities and difficulties in obtaining protection and enforcing our intellectual property;
- difficulties in staffing and managing foreign operations;
- complexities associated with managing multiple payer reimbursement regimes, government payers, or patient self-pay systems;
- logistics and regulations associated with shipping blood samples, including infrastructure conditions and transportation delays;
- limits on our ability to penetrate international markets if we do not to conduct our tests locally;
- financial risks, such as longer payment cycles, difficulty collecting accounts receivable, the impact of local and regional financial conditions on demand and payment for our tests, and exposure to foreign currency exchange rate fluctuations;
- natural disasters, political and economic instability, including wars, terrorism, and political unrest, outbreak of disease, boycotts, curtailment of trade and other business restrictions; and

- regulatory and compliance risks that relate to maintaining accurate information and control over activities that may fall within the purview of the U.S. Foreign Corrupt Practices Act, or FCPA, its books and records provisions, or its anti-bribery provisions.

Any of these factors could significantly harm our future international expansion and operations and, consequently, our revenue and results of operations.

In addition, applicable export or import laws and regulations such as prohibitions on the export of blood imposed by countries outside of the United States, or international privacy or data restrictions that are different or more stringent than those of the United States, may require that we build additional laboratories or engage in joint ventures or other business partnerships in order to offer our tests internationally in the future. Any such restrictions would impair our ability to offer our tests in such countries and could have an adverse effect on our business, financial condition and results of operations.

Ethical, legal and social concerns related to the use of genetic information could reduce demand for our tests.

Genetic testing has raised ethical, legal, and social issues regarding privacy and the appropriate uses of the resulting information. Governmental authorities could, for social or other purposes, limit or regulate the use of genetic information or genetic testing or prohibit testing for genetic predisposition to certain conditions, particularly for those that have no known cure. Similarly, these concerns may lead patients to refuse to use, or clinicians to be reluctant to order, genomic tests even if permissible. These and other ethical, legal and social concerns may limit market acceptance of our tests or reduce the potential markets for our tests, either of which could have an adverse effect on our business, financial condition, or results of operations.

Risks related to government regulation

If the FDA regulates our tests as medical devices, we could incur substantial costs and our business, financial condition, and results of operations could be adversely affected.

We provide our tests as laboratory-developed tests, or LDTs. The Centers for Medicare and Medicaid Services, or CMS, and certain state agencies regulate the performance of LDTs (as authorized by the Clinical Laboratory Improvement Amendments of 1988, or CLIA, and state law, respectively).

Historically, the U.S. Food and Drug Administration, or 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 has stated it intends to end its policy of general enforcement discretion and

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regulate certain LDTs as medical devices. To this end, on October 3, 2014, the FDA issued two draft guidance documents, entitled "Framework for Regulatory Oversight of Laboratory Developed Tests (LDTs)" and "FDA Notification and Medical Device Reporting for Laboratory Developed Tests (LDTs)", respectively, that set forth a proposed risk-based regulatory framework that would apply varying levels of FDA oversight to LDTs. The FDA has indicated that it does not intend to modify its policy of enforcement discretion until the draft guidance documents are finalized. It is unclear at this time when, or if, the draft guidance documents will be finalized, and even then, the new regulatory requirements are proposed to be phased-in consistent with the schedule set forth in the guidance (in as little as 12 months after the draft guidance is finalized for certain high-priority LDTs). Nevertheless, the FDA may decide to regulate certain LDTs on a case-by-case basis at any time.

Legislative proposals addressing the FDA's oversight of LDTs have been introduced in previous Congresses, and we expect that new legislative proposals will be introduced from time-to-time. The likelihood that Congress will pass such legislation and the extent to which such legislation may affect the FDA's plans to regulate certain LDTs as medical devices is difficult to predict at this time.

If the FDA ultimately regulates certain LDTs as medical devices, whether via final guidance, final regulation, or as instructed by Congress, our tests may be subject to certain additional regulatory requirements. Complying with the FDA's requirements for medical devices can be expensive, time-consuming, and subject us to significant or unanticipated delays. Insofar as we may be required to obtain premarket clearance or approval to perform or continue performing an LDT, we cannot assure you that we will be able to obtain such authorization. Even if we obtain regulatory clearance or approval where required, such authorization may not be for the intended uses that we believe are commercially attractive or are critical to the commercial success of our tests. As a result, the application of the FDA's medical device requirements to our tests could materially and adversely affect our business, financial condition, and results of operations.

Failure to comply with applicable FDA regulatory requirements may trigger a range of enforcement actions by the FDA including warning letters, civil monetary penalties, injunctions, criminal prosecution, recall or seizure, operating restrictions, partial suspension or total shutdown of operations, and denial of or challenges to applications for clearance or approval, as well as significant adverse publicity.

In addition, in November 2013, the FDA issued final guidance regarding the distribution of products labeled for research use only. Certain of the reagents and other products we use in our tests are labeled as research use only products. Certain of our suppliers may cease selling research use only products to us and any failure to obtain an acceptable substitute could significantly and adversely affect our business, financial condition and results of operations.

If we fail to comply with federal, state and foreign laboratory licensing requirements, we could lose the ability to perform our tests or experience disruptions to our business.

We are subject to CLIA, a federal law that regulates clinical laboratories that perform testing on specimens derived from humans for the purpose of providing information for the diagnosis, prevention, or treatment of disease. CLIA regulations establish specific standards with respect to personnel qualifications, facility administration, proficiency testing, quality control, quality assurance, and inspections. CLIA certification is also required in order for us to be eligible to bill state and federal healthcare programs, as well as many private third-party payers, for our tests. We have current CLIA certification to conduct our tests at our laboratory in San Francisco. To renew this certification, we are subject to survey and inspection every two years. Moreover, CLIA inspectors may make random inspections of our clinical reference laboratory.

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We are also required to maintain a license to conduct testing in California. California laws establish standards for day-to-day operation of our clinical reference laboratory in San Francisco, including the training and skills required of personnel and quality control. We also maintain out-of-state laboratory licenses to conduct testing on specimens from Florida, Maryland, New York, Pennsylvania and Rhode Island. In addition to having a laboratory license in New York, our clinical reference laboratories are required to be approved on a test-specific basis by the New York State Department of Health, or NYDOH, before the specific tests are performed on specimens from New York. Because our genomic sequencing panels are not approved by New York, we are currently prohibited from performing these tests on samples from New York. We are licensed by the state of New York to perform tests for BRCA abnormalities and our application for approval for our broader sequencing panel tests has been submitted and is under review. Other states may adopt similar licensure requirements in the future, which may require us to modify, delay or stop our operations in such jurisdictions. We may also be subject to regulation in foreign jurisdictions as we seek to expand international utilization of our tests or such jurisdictions adopt new licensure requirements, which may require review of our tests in order to offer them or may have other limitations such as restrictions on the transport of human blood necessary for us to perform our tests that may limit our ability to make our tests available outside of the United States. Complying with licensure requirements in new jurisdictions may be expensive, time-consuming, and subject us to significant and unanticipated delays.

Failure to comply with applicable clinical laboratory licensure requirements may result in a range of enforcement actions, including license suspension, limitation, or revocation, directed plan of action, onsite monitoring, civil monetary penalties, criminal sanctions, and cancellation of the laboratory's approval to receive Medicare and Medicaid payment for its services, as well as

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significant adverse publicity. Any sanction imposed under CLIA, its implementing regulations, or state or foreign laws or regulations governing clinical laboratory licensure, or our failure to renew our CLIA certificate, a state or foreign license, or accreditation, could have a material adverse effect on our business, financial condition and results of operations. Even if we were able to bring our laboratory back into compliance, we could incur significant expenses and potentially lose revenue in doing so.

The College of American Pathologists, or CAP, maintains a clinical laboratory accreditation program. CAP asserts that its program is designed to go well beyond regulatory compliance and helps laboratories achieve the highest standards of excellence to positively impact patient care. While not required to operate a CLIA-certified laboratory, many private insurers require CAP accreditation as a condition to contracting with clinical laboratories to cover their tests. In addition, some countries outside the United States require CAP accreditation as a condition to permitting clinical laboratories to test samples taken from their citizens. In November 2014, we obtained CAP accreditation for our San Francisco laboratory. Failure to maintain CAP accreditation could have a material adverse effect on the sales of our tests and the results of our operations.

Complying with numerous statutes and regulations pertaining to our business is an expensive and time-consuming process, and any failure to comply could result in substantial penalties.

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

- HIPAA, which established 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 and expand vicarious liability, extend enforcement authority to state attorneys general, and impose requirements for breach notification;
- the federal Anti-Kickback Statute, which prohibits knowingly and willfully offering, paying, soliciting, or receiving remuneration, directly or indirectly, overtly or covertly, in cash or in kind, in return for or to induce such person to refer an individual, or to purchase, lease, order, arrange for, or recommend purchasing, leasing or ordering, any good, facility, item or service that is reimbursable, in whole or in part, under a federal healthcare program;
- the federal Stark physician self-referral law, which prohibits a physician from making a referral for certain designated health services covered by the Medicare program, including laboratory and pathology services, if the physician or an immediate family member has a financial relationship with the entity providing the designated health services, and prohibits that entity from billing or presenting a claim for the designated health services furnished pursuant to the prohibited referral, unless an exception applies;

- the federal false claims laws, which impose 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 healthcare 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 healthcare program, unless an exception applies;
- the HIPAA fraud and abuse provisions, which created new federal criminal statutes that prohibit, among other things, defrauding healthcare programs, willfully obstructing a criminal investigation of a healthcare offense and falsifying or concealing a material fact or making any materially false statements in connection with the payment for healthcare benefits, items or services;
- other federal and state fraud and abuse laws, such as anti-kickback laws, prohibitions on self-referral, fee-splitting restrictions, insurance fraud laws, anti-markup laws, prohibitions on the provision of tests at no or discounted cost to induce physician or patient adoption, and false claims acts, which may extend to services reimbursable by any third-party payer, including private insurers;
- the prohibition on reassignment of Medicare claims, which, subject to certain exceptions, precludes the reassignment of Medicare claims to any other party;
- state laws that prohibit other specified practices, such as billing clinicians for testing that they order; waiving coinsurance, copayments, deductibles, and other amounts owed by patients; billing a state Medicaid program at a price that is higher than what is charged to one or more other payers; and

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- similar foreign laws and regulations that apply to us in the countries in which we operate or may operate in the future.

We have adopted policies and procedures designed to comply with these laws and regulations. In the ordinary course of our business, we conduct internal reviews of our compliance with these laws. Our compliance is also subject to governmental review. The growth of our business and our expansion outside of the United States may increase the potential of violating these laws or our internal policies and procedures. The risk of our being found in violation of these or other laws and regulations is further increased by the fact that many have not been fully interpreted by the regulatory authorities or the courts, and their provisions are open to a variety of interpretations. Any action brought against us for violation of these or other laws or regulations, even if we successfully defend against it, could cause us to incur significant legal expenses and divert our management's attention from the operation of our business. If our operations are found to be in violation of any of these laws and regulations, we may be subject to any applicable penalty associated with the violation, including administrative, civil and criminal penalties, damages, fines, individual imprisonment, exclusion from participation in Federal healthcare programs, refunding of payments received by us, and curtailment or cessation of our operations. Any of the foregoing consequences could seriously harm our business and our financial results.

Healthcare policy changes, including recently enacted legislation reforming the U.S. healthcare system, may have a material adverse effect on our financial condition, results of operations and cash flows.

In March 2010, the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Reconciliation Act, collectively referred to as the Affordable Care Act, was enacted in the United States, which made a number of substantial changes in the way healthcare is financed by both governmental and private insurers. Among other things, the Affordable Care Act:

- requires each medical device manufacturer to pay a sales tax equal to 2.3% of the price for which such manufacturer sells its medical devices, and applied to sales of taxable medical devices from January 1, 2013 through December 31, 2015. The medical device tax has been suspended for 2016 and 2017, but is scheduled to return beginning in 2018. It is unclear at this time when, or if, the provision of our LDTs will trigger the medical device tax if the FDA ends its policy of general enforcement discretion and regulates certain LDTs as medical devices. It is possible, however, that this tax will apply to some or all of our tests or tests which are in development.
- establishes an Independent Payment Advisory Board, or IPAB, to reduce the per capita rate of growth in Medicare spending if expenditures exceed certain targets. At this point, the triggers for IPAB proposals have not been met; it is unclear when such triggers may be made met in the future and when any IPAB-proposed reductions to payments could take effect.

Many of the Current Procedure Terminology, or CPT, procedure codes that we use to bill our tests were revised by the American Medical Association, effective January 1, 2013. Moreover, the AMA recently released new codes to report genomic sequencing procedures. In a final determination under the Medicare Clinical Laboratory Fee Schedule, or CLFS, published in November 2014, CMS set the 2015 payment rate for these codes by the gap-fill process. Under the gap-fill process, local Medicare Administrative Contractors, or MACs, establish rates for those codes that each MAC believes meet the criteria for Medicare coverage and considering laboratory charges and discounts to charges, resources, amounts paid by other payers for the tests, and amounts paid by the MAC for similar tests. In 2015, gapfilled payment rates were established for

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some, but not all, of the above-described codes. For those codes for which local gap-filled rate(s) were established in 2015, a national limitation amount for Medicare has been established for 2016. Codes for which local gap-filled rates were not established in 2015 will be priced by the local MACs in 2016 insofar as an individual MAC determines that such codes should be covered. Where available, the national limitation amount serves as a cap on the Medicare and Medicaid payment rates for a test procedure. We do not yet know how our tests may fit under these new codes, but if we are required to report our tests under these codes, we cannot assure you that Medicare or its contractors have or will set adequate reimbursement rates for these new codes.

In April 2014, Congress passed the Protecting Access to Medicare Act of 2014, or PAMA, which included substantial changes to the way in which clinical laboratory services will be paid under Medicare. Under PAMA, clinical laboratories must report to Medicare private payer rates beginning in 2016 and every three years thereafter for clinical diagnostic laboratory tests that are not advanced diagnostic laboratory tests and every year for advanced diagnostic laboratory tests.

We do not believe that our tests meet the current definition of advanced diagnostic laboratory tests, but in the event that our tests are determined by CMS to meet these criteria or new criteria developed by CMS, we would be required to report private payer data for those tests annually. Otherwise, we will be required to report private payer rates for our tests on an every three years basis. Laboratories that fail to report the required payment information may be subject to substantial civil money penalties. CMS has not yet issued a final rule implementing the reporting and rate-setting requirements under PAMA.

As set forth in PAMA, for tests furnished on or after January 1, 2017, Medicare payments for clinical diagnostic laboratory tests will be paid based upon these reported private payer rates. For clinical diagnostic laboratory tests that are assigned a new or substantially revised code, initial payment rates for clinical diagnostic laboratory tests that are not advanced diagnostic laboratory tests

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will be assigned by the cross-walk or gap-fill methodology, as under prior law. Initial payment rates for new advanced diagnostic laboratory tests will be based on the actual list charge for the laboratory test. The impact of the new payment system on rates for our tests, including any current or future clinical diagnostic laboratory tests or advanced diagnostic laboratory tests we develop, is not clear at this time.

PAMA also authorized the adoption of new, temporary billing codes and/or unique test identifiers for FDA-cleared or approved tests as well as advanced diagnostic laboratory tests. The CPT® Editorial Panel approved a proposal to create a new section of billing codes to facilitate implementation of this section of PAMA, but it is unclear whether or when the new section of billing codes will be implemented, and it is unclear how these codes would apply to our tests.

We cannot predict whether future healthcare initiatives will be implemented at the federal or state level, or how any future legislation or regulation may affect us. For instance, the payment reductions imposed by the Affordable Care Act and the expansion of the federal and state governments' role in the U.S. healthcare industry as well as changes to the reimbursement amounts paid by payers for our tests and future tests or our medical procedure volumes may reduce our profits and have a materially adverse effect on our business, financial condition, results of operations, and cash flows. Moreover, Congress has proposed on several occasions to impose a 20% coinsurance on patients for clinical laboratory tests reimbursed under the clinical laboratory fee schedule, which would increase our billing and collecting costs and decrease our revenue.

If we use hazardous materials in a manner that causes injury, we could be liable for resulting damages.

Our activities currently require the use of hazardous chemicals and biological material. We cannot eliminate the risk of accidental contamination or injury to employees or third parties from the use, storage, handling, or disposal of these materials. In the event of contamination or injury, we could be held liable for any resulting damages, and any liability could exceed our resources or any applicable insurance coverage we may have. Additionally, we are subject on an ongoing basis to federal, state, and local laws and regulations governing the use, storage, handling and disposal of these materials and specified waste products. The cost of compliance with these laws and regulations may become significant, and our failure to comply may result in substantial fines or other consequences, and either could negatively affect our operating results.

We could be adversely affected by violations of the FCPA and other worldwide anti-bribery laws.

We are subject to the FCPA, which prohibits companies and their intermediaries from making payments in violation of law to non-U.S. government officials for the purpose of obtaining or retaining business or securing any other improper advantage. Our reliance on independent distributors to sell our tests internationally demands a high degree of vigilance in maintaining our policy against participation in corrupt activity, because these distributors could be deemed to be our agents, and we could be held responsible for their actions. Other U.S. companies in the medical device and pharmaceutical fields have faced criminal penalties under the FCPA for allowing their agents to deviate from appropriate practices in doing business with these individuals. We are also subject to similar anti-bribery laws in the jurisdictions in which we operate, including the United Kingdom's Bribery Act of 2010, which also prohibits commercial bribery and makes it a crime for companies to fail to prevent bribery. These laws are complex and far-reaching in nature, and, as a result, we cannot assure you that we would not be required in the future to alter one or more of our practices to be in compliance with these laws or any changes in these laws or the interpretation thereof. Any violations of these laws, or allegations of such violations, could disrupt our operations, involve significant management distraction, involve significant costs and expenses, including legal fees, and could result in a material adverse effect on our business, prospects, financial condition, or results of operations. We could also incur severe penalties, including criminal and civil penalties, disgorgement, and other remedial measures.

Risks related to our intellectual property

Litigation or other proceedings or third-party claims of intellectual property infringement or misappropriation may require us to spend significant time and money, and could in the future prevent us from selling our tests or impact our stock price.

Our commercial success will depend in part on our avoiding infringement of patents and proprietary rights of third parties, including for example the intellectual property rights of competitors. As we continue to commercialize our tests in their current or an updated form, launch different and expanded tests, and enter new markets, competitors might claim that our tests infringe or misappropriate their intellectual property rights as part of business strategies designed to impede our successful commercialization and entry into new markets. Our activities may be subject to claims that we infringe or otherwise violate patents or other intellectual property rights owned or controlled by third parties. We cannot assure you that our operations do not, or will not in the future, infringe existing or future patents. We may be unaware of patents that a third party, including for example a competitor in the genetic testing market, might assert are infringed by our business. There may also be patent applications that, if issued as patents, could be asserted against us. Third parties making claims against us for infringement or misappropriation of their intellectual property rights may seek and obtain injunctive or other equitable relief, which could effectively block our ability to perform our tests. Further, if a patent infringement suit were brought against us, we could be forced to stop or delay our development or sales of any tests or other activities that are the subject of such suit. Defense of these claims, regardless of merit, could cause us to incur substantial expenses and be a

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substantial diversion of our employee resources. Any adverse ruling or perception of an adverse ruling in defending ourselves could have a material adverse impact on our business and stock price. In the event of a successful claim of infringement against us by a third party, we may have to (1) pay substantial damages, possibly including treble damages and attorneys' fees if we are found to have willfully infringed patents; (2) obtain one or more licenses, which may not be available on commercially reasonable terms (if at all); (3) pay royalties; and/or (4) redesign any infringing tests or other activities, which may be impossible or require substantial time and monetary expenditure, all of which could have a material adverse impact on our cash position and business and financial condition.

If licenses to third-party intellectual property rights are or become required for us to engage in our business, we may be unable to obtain them at a reasonable cost, if at all. Even if such licenses are available, we could incur substantial costs related to royalty payments for licenses obtained from third parties, which could negatively affect our gross margins. Moreover, we could encounter delays in the introduction of tests while we attempt to develop alternatives. Defense of any lawsuit or failure to obtain any of these licenses on favorable terms could prevent us from commercializing tests, which could materially affect our ability to grow and thus adversely affect our business and financial condition.

Developments in patent law could have a negative impact on our business.

Although we view current U.S. Supreme Court precedent to be aligned with our belief that naturally occurring DNA sequences and detection of natural correlations between observed facts (such as patient genetic data) and an understanding of that fact's implications (such as a patient's risk of disease associated with certain genetic variations) should not be patentable, it is possible that subsequent determinations by the U.S. Supreme Court or other federal courts could limit, alter or potentially overrule current law. Moreover, from time to time the U.S. Supreme Court, other federal courts, the United States Congress or the U.S. Patent and Trademark Office, or USPTO, may change the standards of patentability, and any such changes could run contrary to, or otherwise be inconsistent with, our belief that naturally occurring DNA sequences and detection of natural correlations between observed facts and an understanding of that fact's implications should not be patentable, which could result in third parties newly claiming that our business practices infringe patents drawn from categories of patents which we currently view to be invalid as directed to unpatentable subject matter.

Our inability to effectively protect our proprietary technologies, including the confidentiality of our trade secrets, could harm our competitive position.

We currently rely upon trade secret protection and copyright, as well as non-disclosure agreements and invention assignment agreements with our employees, consultants and third-parties, and to a limited extent patent protection, to protect our confidential and proprietary information. Although our competitors have utilized and are expected to continue utilizing similar methods and have aggregated and are expected to continue to aggregate similar databases of genetic testing information, our success will depend upon our ability to develop proprietary methods and databases and to defend any advantages afforded to us by such methods and databases relative to our competitors. If we do not protect our intellectual property adequately, competitors may be able to use our methods and databases and thereby erode any competitive advantages we may have.

We will be able to protect our proprietary rights from unauthorized use by third parties only to the extent that our proprietary technologies are covered by valid and enforceable patents or are effectively maintained as trade secrets. In this regard, we have applied, and we intend to continue applying, for patents covering such aspects of our technologies as we deem appropriate. However, we expect that potential patent coverage we may obtain will not be sufficient to prevent substantial competition. In this regard, we believe it is probable that others will independently develop similar or alternative technologies or design around those technologies for which we may obtain patent protection. In addition, any patent applications we file may be challenged and may not result in issued patents or may be invalidated or narrowed in scope after they are

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issued. Questions as to inventorship or ownership may also arise. Any finding that our patents or applications are unenforceable could harm our ability to prevent others from practicing the related technology, and a finding that others have inventorship or ownership rights to our patents and applications could require us to obtain certain rights to practice related technologies, which may not be available on favorable terms, if at all. If we initiate lawsuits to protect or enforce our patents, or litigate against third party claims, which would be expensive, and, if we lose, we may lose some of our intellectual property rights. Furthermore, these lawsuits may divert the attention of our management and technical personnel.

We expect to rely primarily upon trade secrets and proprietary know-how protection for our confidential and proprietary information, and we have taken security measures to protect this information. These measures, however, may not provide adequate protection for our trade secrets, know-how, or other confidential information. Among other things, we seek to protect our trade secrets and confidential information by entering into confidentiality agreements with employees and consultants. There can be no assurance that any confidentiality agreements that we have with our employees and consultants will provide meaningful protection for our trade secrets and confidential information or will provide adequate remedies in the event of unauthorized use or disclosure of such information. Accordingly, there also can be no assurance that our trade secrets will not otherwise become known or be independently developed by competitors. Enforcing a claim that a party illegally disclosed or misappropriated a trade secret can be difficult, expensive, and time-consuming, and the outcome is unpredictable. In addition, trade secrets may be independently developed by others in a manner that could prevent legal recourse by us. If any of our confidential or proprietary information, such as our trade

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secrets, were to be disclosed or misappropriated, or if any such information was independently developed by a competitor, our competitive position could be harmed.

We may not be able to enforce our intellectual property rights throughout the world.

The laws of some foreign countries do not protect proprietary rights to the same extent as the laws of the United States, and many companies have encountered significant challenges in establishing and enforcing their proprietary rights outside of the United States. These challenges can be caused by the absence of rules and methods for the establishment and enforcement of intellectual property rights outside of the United States. In addition, the legal systems of some countries, particularly developing countries, do not favor the enforcement of patents and other intellectual property protection, especially those relating to healthcare. This could make it difficult for us to stop the infringement of our patents, if obtained, or the misappropriation of our other intellectual property rights. For example, many foreign countries have compulsory licensing laws under which a patent owner must grant licenses to third parties. In addition, many countries limit the enforceability of patents against third parties, including government agencies or government contractors. In these countries, patents may provide limited or no benefit. Patent protection must ultimately be sought on a country-by-country basis, which is an expensive and time-consuming process with uncertain outcomes. Accordingly, we may choose not to seek patent protection in certain countries, and we will not have the benefit of patent protection in such countries. Proceedings to enforce our patent rights in foreign jurisdictions could result in substantial costs and divert our efforts and attention from other aspects of our business. Accordingly, our efforts to protect our intellectual property rights in such countries may be inadequate. In addition, changes in the law and legal decisions by courts in the United States and foreign countries may affect our ability to obtain adequate protection for our technology and the enforcement of intellectual property.

Third parties may assert that our employees or consultants have wrongfully used or disclosed confidential information or misappropriated trade secrets.

We employ individuals who were previously employed at universities or genetic testing, diagnostic or other healthcare companies, including our competitors or potential competitors. Although we try to ensure that our employees and consultants do not use the proprietary information or know-how of others in their work for us, we may be subject to claims that we or our employees or consultants have inadvertently or otherwise used or disclosed intellectual property, including trade secrets or other proprietary information, of a former employer or other third parties. Further, we may be subject to ownership disputes in the future arising, for example, from conflicting obligations of consultants or others who are involved in developing our intellectual property. Litigation may be necessary to defend against these claims. If we fail in defending any such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights or personnel. Even if we are successful in defending against such claims, litigation could result in substantial costs and be a distraction to management and other employees.

On September 16, 2015, GeneDx, Inc. and Bio-Reference Laboratories, Inc. filed an action against us in the U.S. District Court for the District of New Jersey. The Complaint alleges that Invitae wrongfully solicited and hired employees away from the plaintiffs in order to acquire access to trade secrets and other confidential business information belonging to the plaintiffs. The Complaint alleges claims for relief based on legal theories of unfair competition, tortious interference with prospective economic advantage, tortious interference with contract, and trade secret misappropriation, and seeks injunctive relief; damages, including punitive damages; and attorneys' fees and costs. On October 22, 2015, we filed a motion to dismiss the action for lack of personal jurisdiction or, in the alternative, to transfer the action to the U.S. District Court for the Northern District of California. On November 13, 2015, the plaintiffs filed their First Amended Complaint. On December 14, 2015, we responded by again filing a motion to dismiss the action for lack of personal jurisdiction or, in the alternative, to transfer the action to the U.S. District Court for the Northern District of California. The parties negotiated the exchange of information regarding the issue of personal jurisdiction, and extended the plaintiffs' deadline to respond to the motion during that negotiation. The current due date for the plaintiffs' response is May 16, 2016. We believe the action is without merit and intend to defend ourselves vigorously.

Risks related to being a public company

We will incur increased costs and demands on management as a result of compliance with laws and regulations applicable to public companies, which could harm our operating results.

As a public company, we will incur significant legal, accounting and other expenses that we did not incur as a private company, including costs associated with public company reporting requirements. In addition, the Sarbanes-Oxley Act of 2002, or the Sarbanes-Oxley Act, as well as rules implemented by the SEC and the New York Stock Exchange, or NYSE, impose a number of requirements on public companies, including with respect to corporate governance practices. The SEC and other regulators have continued to adopt new rules and regulations and make additional changes to existing regulations that require our compliance. In July 2010, the Dodd-Frank Wall Street Reform and Consumer Protection Act, or the Dodd-Frank Act, was enacted. There are significant corporate governance and executive-compensation-related provisions in the Dodd-Frank Act that require the SEC to adopt additional rules and regulations in these areas. Our management and other personnel will need to devote a substantial amount of time to these compliance and disclosure obligations. If these requirements divert the attention of our management and personnel from other aspects of our business concerns, they could have a material adverse effect on our business, financial condition and results of operations.

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Moreover, these rules and regulations applicable to public companies will substantially increase our legal, accounting and financial compliance costs, require that we hire additional personnel and make some activities more time-consuming and costly. We also expect that it will be more expensive for us to obtain director and officer liability insurance. We cannot predict or estimate the amount or timing of additional costs we may incur to comply with these requirements.

If we are unable to maintain effective internal control over financial reporting, investors may lose confidence in the accuracy and completeness of our reported financial information and the market price of our common stock may be negatively affected.

We are required to maintain internal control over financial reporting and to report any material weaknesses in such internal controls. Section 404 of the Sarbanes-Oxley Act requires that we evaluate and determine the effectiveness of our internal control over financial reporting and provide a management report on our internal control over financial reporting. If we have a material weakness in our internal control over financial reporting, we may not detect errors on a timely basis and our financial statements may be materially misstated. We have only recently compiled the system and process documentation necessary to perform the evaluation needed to comply with Section 404 of the Sarbanes-Oxley Act. We will need to maintain and enhance these processes and controls as we grow and we may require additional personnel and resources to do so.

During the evaluation and testing process, if we identify one or more material weaknesses in our internal controls, our management will be unable to conclude that our internal control over financial reporting is effective. Moreover, when we are no longer an emerging growth company, our independent registered public accounting firm will be required to issue an attestation report on the effectiveness of our internal control over financial reporting. Even if our management concludes that our internal control over financial reporting is effective, our independent registered public accounting firm may conclude that there are material weaknesses with respect to our internal controls or the level at which our internal controls are documented, designed, implemented or reviewed.

If we are unable to conclude that our internal control over financial reporting is effective, or when we are no longer an emerging growth company, if our auditors were to express an adverse opinion on the effectiveness of our internal control over financial reporting because we had one or more material weaknesses, investors could lose confidence in the accuracy and completeness of our financial disclosures, which could cause the price of our common stock to decline. Internal control deficiencies could also result in the restatement of our financial results in the future.

We are an emerging growth company and may elect to comply with reduced public company reporting requirements applicable to emerging growth companies, which could make our common stock less attractive to investors.

We are an emerging growth company, as defined under the Securities Act of 1933, or the Securities Act. We will remain an emerging growth company until December 31, 2020, although if our revenue exceeds \$1 billion in any fiscal year before that time, we would cease to be an emerging growth company as of the end of that fiscal year. In addition, if the market value of our common stock that is held by non-affiliates exceeds \$700 million as of the last business day of our second fiscal quarter of any fiscal year before the end of that five-year period, we would cease to be an emerging growth company as of December 31 of that year. As an emerging growth company, we may choose to take advantage of exemptions from various reporting requirements applicable to certain other public companies, including not being required to comply with the auditor attestation requirements of Section 404 of the Sarbanes-Oxley Act, reduced financial statement and financial-related disclosures, reduced disclosure obligations regarding executive compensation in our periodic reports and proxy statements, and exemptions from the requirement of holding a nonbinding advisory vote on executive compensation and obtaining stockholder approval of any golden parachute payments not previously approved by our stockholders. We cannot predict whether investors will find our common stock less attractive if we choose to rely on any of these exemptions. If investors find our common stock less attractive as a result of any choices to reduce future disclosure we may make,

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there may be a less active trading market for our common stock and our stock price may be more volatile.

Risks related to our common stock

Our stock price may be volatile, and you may not be able to sell shares of our common stock at or above the price you paid.

Prior to our initial public offering in February 2015, there was no public market for our common stock, and an active and liquid public market for our stock may not develop or be sustained. In addition, the trading price of our common stock is likely to be highly volatile and could be subject to wide fluctuations in response to various factors, some of which are beyond our control. These factors include:

- actual or anticipated fluctuations in our operating results;
- competition from existing tests or new tests that may emerge;
- announcements by us or our competitors of significant acquisitions, strategic partnerships, joint ventures, collaborations, or capital commitments;

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- failure to meet or exceed financial estimates and projections of the investment community or that we provide to the public;
- issuance of new or updated research or reports by securities analysts or changed recommendations for our stock;
- our focus on long term goals over short term results;
- the timing of our investments in the growth of our business;
- actual or anticipated changes in regulatory oversight of our business;
- additions or departures of key management or other personnel;
- disputes or other developments related to our intellectual property or other proprietary rights, including litigation;
- changes in reimbursement by current or potential payers; and
- general economic and market conditions.

In addition, the stock market in general, and the market for stock of life sciences companies in particular, has experienced extreme price and volume fluctuations that have often been unrelated or disproportionate to the operating performance of those companies. Broad market and industry factors may seriously affect the market price of our common stock, regardless of our actual operating performance. In addition, in the past, following periods of volatility in the overall market and the market price of a particular company's securities, securities class action litigation has often been instituted against these companies. This litigation, if instituted against us, could result in substantial costs and a diversion of our management's attention and resources.

If securities or industry analysts issue an adverse opinion regarding our stock or do not publish research or reports about our company, our stock price and trading volume could decline.

The trading market for our common stock will depend in part on the research and reports that equity research analysts publish about us and our business. We do not control these analysts or the content and opinions included in their reports. Securities analysts may elect not to provide research coverage of our company and such lack of research coverage may adversely affect the market price of our common stock. The price of our common stock could also decline if one or more equity research analysts downgrade our common stock or issue other unfavorable commentary or cease publishing reports about us or our business. If one or more equity research analysts cease coverage of our company, we could lose visibility in the market, which in turn could cause our stock price to decline.

Insiders will exercise significant control over our company and will be able to influence corporate matters.

At March 31, 2016, directors, executive officers, 5% or greater stockholders and their affiliates beneficially owned, in the aggregate, 64% of our outstanding capital stock. As a result, these stockholders will be able to exercise significant influence over all matters submitted to our stockholders for approval, including the election of directors and approval of significant corporate transactions, such as a merger or sale of our company or its assets. This concentration of ownership may have the effect of delaying or preventing a third party from acquiring control of our company and could adversely affect the market price of our common stock.

Our ability to use our net operating loss carryforwards and certain other tax attributes may be limited.

At March 31, 2016, our total gross deferred tax assets were \$60.7 million. Due to our lack of earnings history and uncertainties surrounding our ability to generate future taxable income, the net deferred tax assets have been fully offset by a valuation allowance. The deferred tax assets were primarily comprised of federal and state tax net operating losses and tax credit carryforwards. Furthermore, under Section 382 of the Internal Revenue Code of 1986, as amended, or the Internal Revenue Code, if a corporation undergoes an ownership change, the corporation's ability to use its pre-change net operating loss carryforwards, or NOLs, and other pre-change tax attributes (such as research tax credits) to offset its future taxable income may be limited. In general, an ownership change occurs if there is a cumulative change in our ownership by 5% shareholders that exceeds 50 percentage points over a rolling three-year period. Our existing NOLs and tax credit carryovers may be subject to limitations arising from previous ownership changes, and if we undergo one or more ownership changes in connection with future transactions in our stock, our ability to utilize NOLs and tax credit carryovers could be further limited by Section 382 of the Internal Revenue Code. As a result, if we earn net taxable income, our ability to use our pre-change net operating loss and tax credit carryforwards to offset U.S. federal taxable income may be subject to limitations, which could potentially result in increased future tax liability to us. The annual limitation may result in the expiration of certain net operating loss and tax credit carryforwards before their utilization. In addition, at the state level, there may

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be periods during which the use of NOLs is suspended or otherwise limited, which could accelerate or permanently increase state taxes owed.

We have never paid dividends on our capital stock and we do not anticipate paying dividends in the foreseeable future.

We have never paid dividends on any of our capital stock and currently intend to retain any future earnings to fund the growth of our business. In addition our loan agreement prohibits us from paying dividends on our common stock. Any determination to pay dividends in the future will be at the discretion of our board of directors and will depend on our financial condition, operating results, capital requirements, general business conditions and other factors that our board of directors may deem relevant. As a result, capital appreciation, if any, of our common stock will be the sole source of gain for the foreseeable future.

Anti-takeover provisions in our charter documents and under Delaware law could discourage, delay or prevent a change in control and may affect the trading price of our common stock.

Provisions in our restated certificate of incorporation and our amended and restated bylaws may have the effect of delaying or preventing a change of control or changes in our management. Our restated certificate of incorporation and amended and restated bylaws include provisions that:

- authorize our board of directors to issue, without further action by the stockholders, up to 20,000,000 shares of undesignated preferred stock;
- require that any action to be taken by our stockholders be effected at a duly called annual or special meeting and not by written consent;
- specify that special meetings of our stockholders can be called only by our board of directors, our chairman of the board, or our chief executive officer;
- establish an advance notice procedure for stockholder approvals to be brought before an annual meeting of our stockholders, including proposed nominations of persons for election to our board of directors;
- establish that our board of directors is divided into three classes, Class I, Class II and Class III, with each class serving staggered terms;

- provide that our directors may be removed only for cause;
- provide that vacancies on our board of directors may, except as otherwise required by law, be filled only by a majority of directors then in office, even if less than a quorum; and
- require a super-majority of votes to amend certain of the above- mentioned provisions as well as to amend our bylaws generally.

In addition, we are subject to the provisions of Section 203 of the Delaware General Corporation Law regulating corporate takeovers. Section 203 generally prohibits us from engaging in a business combination with an interested stockholder subject to certain exceptions.

Our certificate of incorporation designates the Court of Chancery of the State of Delaware as the sole and exclusive forum for certain types of actions and proceedings that may be initiated by our stockholders, which could limit our stockholders' ability to obtain a favorable judicial forum for disputes with us or our directors, officers or other employees.

Our certificate of incorporation provides that, unless we consent in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware shall be the sole and exclusive forum for:

- any derivative action or proceeding brought on our behalf;
- any action asserting a claim of breach of a fiduciary duty owed by any of our directors, officers, or other employees to us or our stockholders;
- any action asserting a claim arising pursuant to any provision of the Delaware General Corporation Law; or
- any action asserting a claim against us governed by the internal affairs doctrine.

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Any person or entity purchasing or otherwise acquiring any interest in shares of our capital stock shall be deemed to have notice of and consented to the provisions of our certificate of incorporation described above. This choice of forum provision may limit a stockholder's ability to bring a claim in a judicial forum that it finds favorable for disputes with us or our directors, officers or other employees, which may discourage such lawsuits against us and our directors, officers, and other employees. Alternatively, if a court were to find these provisions of our certificate of incorporation inapplicable to, or unenforceable in respect of, one or more of the specified types of actions or proceedings, we may incur additional costs associated with resolving such matters in other jurisdictions, which could adversely affect our business, financial condition or results of operations.

ITEM 2. Unregistered Sales of Equity Securities and Use of Proceeds.

Use of proceeds

On February 18, 2015, we completed an initial public offering, or IPO, of our common stock. In connection with the IPO, we issued and sold 7,302,500 shares of common stock at a price to the public of \$16.00 per share. As a result of the IPO, we received approximately \$116.8 million in gross proceeds, and \$105.7 million in net proceeds after deducting underwriting discounts and commissions of \$8.2 million and offering expenses of approximately \$2.9 million payable by us. We registered the shares under the Securities Act of 1933 on a Registration Statement on Form S-1 (Registration No. 333-201433), which was declared effective on February 11, 2015, and on a Registration Statement on Form S-1 (Registration No. 333-202040), which was declared effective on February 11, 2015. There has been no material change in the planned use of proceeds from our IPO as described in our final prospectus filed with the SEC on February 12, 2015 pursuant to Rule 424(b).

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ITEM 6. Exhibits.

Exhibit Number	Description
10.1#	Separation and Release of Claims Agreement between Invitae Corporation and Lisa Alderson dated March 8, 2016.
31.1	Principal Executive Officer's Certifications Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
31.2	Principal Financial Officer's Certifications Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1*	Certification Pursuant to 18 U.S.C. § 1350 (Section 906 of Sarbanes-Oxley Act of 2002).
32.2*	Certification Pursuant to 18 U.S.C. § 1350 (Section 906 of Sarbanes-Oxley Act of 2002).
101.INS	XBRL Instance Document
101.SCH	XBRL Taxonomy Extension Schema
101.CAL	XBRL Taxonomy Extension Calculation Linkbase
101.DEF	XBRL Taxonomy Extension Definition Linkbase
101.LAB	XBRL Taxonomy Extension Label Linkbase
101.PRE	XBRL Taxonomy Extension Presentation Linkbase

Indicates management contract or compensating plan or arrangement.

* In accordance with Item 601(b)(32)(ii) of Regulation S-K and SEC Release No. 34-47986, the certifications furnished in Exhibits 32.1 and 32.2 hereto are deemed to accompany this Form 10-Q and will not be deemed filed for purposes of Section 18 of the Securities Exchange Act of 1934 (the Exchange Act) or deemed to be incorporated by reference into any filing under the Exchange Act or the Securities Act of 1933 except to the extent that the registrant specifically incorporates it by reference.

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SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

INVITAE CORPORATION

By: /s/ RANDAL W. SCOTT, PH.D.
Randal W. Scott, Ph.D.
Chief Executive Officer
Principal Executive Officer

By: /s/ LEE BENDEKGEY
Lee Bendekgey
Chief Financial Officer, General Counsel and Secretary
Principal Financial Officer

Date: May 9, 2016