

NEXTEL PARTNERS INC
Form S-3/A
October 24, 2003

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As filed with the Securities and Exchange Commission on October 24, 2003

Registration No. 333-106352

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

AMENDMENT NO. 3

TO

FORM S-3

**REGISTRATION STATEMENT
UNDER THE SECURITIES ACT OF 1933**

NEXTEL PARTNERS, INC.

(Exact name of registrant as specified in its charter)

DELAWARE

(State or other jurisdiction of
incorporation or organization)

4813

(Primary Standard Industrial
Classification Code Number)

91-1930918

(I.R.S. Employer
Identification Number)

4500 Carillon Point

Kirkland, Washington 98033

(425) 576-3600

(Address, including zip code, and telephone number, including
area code, of the registrant's principal executive offices)

Donald Manning, Esq.

4500 Carillon Point

Kirkland, Washington 98033

(425) 576-3600

(Name, address, including zip code, and telephone number,
including area code, of agent for service)

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

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

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

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

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

If delivery of the prospectus is expected to be made pursuant to Rule 434, please check the following box.

The registrant hereby amends this registration statement on such date or dates as may be necessary to delay its effective date until the registrant shall file a further amendment which specifically states that this registration statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act or until the registration statement shall become effective on such date as the Securities and Exchange Commission, acting pursuant to said Section 8(a), may determine.

The information in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and it is not soliciting an offer to buy these securities in any state where the offer or sale is not permitted.

Subject to completion, dated October 24, 2003.

PROSPECTUS

\$175,000,000
(aggregate principal amount)

1¹/₂% Convertible Senior Notes Due 2008 and Class A Common Stock Issuable Upon Conversion of the Notes

This prospectus covers resales from time to time by certain selling securityholders of our 1¹/₂% convertible senior notes due 2008 and the shares of our Class A common stock issued upon conversion of the notes (23,084,022 shares at the current conversion price). The selling security holders may offer the securities at fixed prices, at prevailing market prices at the time of sale, at varying prices or negotiated prices. We will not receive any proceeds from the selling security holders' sales of these securities.

The Notes

Interest is payable at 1¹/₂% per annum on the principal amount, payable semi-annually in arrears in cash on May 15 and November 15 of each year, beginning November 15, 2003.

Holders may convert the notes into our Class A common stock at any time before November 15, 2008 at a conversion price of \$7.58 per share, subject to adjustment in specified events. Changes in the conversion price, if any, and the number of

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shares issuable upon conversion as a result of any change, will be set forth in a supplement to this prospectus.

There is currently no established market for trading in the notes.

The Class A Common Stock

Our Class A common stock is listed on the Nasdaq National Market under the symbol "NXTP."

On October 22, 2003, the last reported sale price of our Class A common stock was \$10.61.

As a prospective purchaser of these securities, you should carefully consider the discussion of "Risk Factors" that begins on page 8 of this prospectus.

Neither the Securities and Exchange Commission nor any state securities commission has approved the notes or Class A common stock to be distributed under this prospectus, nor have any of these organizations determined that this prospectus is accurate or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus is _____, 2003

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As used in this prospectus, "Nextel Partners," "company," "we," "our," "ours" and "us" refer to Nextel Partners, Inc., except where the context otherwise requires or as otherwise indicated. This prospectus incorporates important business and financial information about us that is not included in or delivered with this prospectus. You may obtain documents that we filed with the Securities and Exchange Commission and incorporated by reference into this prospectus by requesting the documents, in writing or by telephone, from the Securities and Exchange Commission or from:

Nextel Partners, Inc.
4500 Carillon Point
Kirkland, Washington 98033
Attention: Investor Relations
Telephone: (425) 576-3600

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See "Where You Can Find More Information."

We have not authorized any dealer, salesperson or other person to give any information or represent anything not contained in this prospectus. You should not rely on any unauthorized information. This prospectus does not offer to sell or buy any securities in any jurisdiction in which it is unlawful to do so. The information in this prospectus is current as of the date on the cover of this prospectus.

"Nextel", "Nextel Direct Connect" and "Nextel Online Services" are trademarks or service marks of Nextel Communications, Inc. "Motorola" and "iDEN" are trademarks or service marks of Motorola, Inc.

SUMMARY

This summary contains basic information about us and this offering. Because it is a summary, it does not contain all of the information that you should consider before investing. You should read this entire prospectus carefully, including the section entitled "Risk Factors" and our consolidated financial statements and the notes thereto, before making an investment decision.

Nextel Partners

Overview

We provide digital mobile communications services using the Nextel brand name in mid-sized and tertiary markets throughout the United States. We offer digital cellular services; Direct Connect® (the long-range digital walkie-talkie service); wireless data services, including email; text messaging; and Nextel Online Services®, which provide wireless access to the Internet and an organization's internal databases and other applications. We hold licenses for wireless frequencies in markets where approximately 53 million people, or Pops, live and work. We have constructed and operate a digital mobile network compatible with the digital mobile network constructed and operated by Nextel Communications, Inc. ("Nextel") in targeted portions of these markets, including 13 of the top 100 metropolitan statistical areas and 57 of the top 200 metropolitan statistical areas in the United States ranked by population. Our combined Nextel Digital Mobile Network constitutes one of the largest fully integrated digital wireless communications systems in the United States, currently covering 198 of the top 200 metropolitan statistical areas in the United States. As of June 30, 2003, our portion of the Nextel Digital Mobile Network covered approximately 37 million Pops and we had approximately 1,053,600 digital handsets in service in our markets.

Our relationship with Nextel was created to accelerate the build-out and expand the reach of the Nextel Digital Mobile Network. In January 1999, we entered into a joint venture agreement with Nextel WIP Corp. ("Nextel WIP"), an indirect wholly owned subsidiary of Nextel. Nextel, through Nextel WIP, contributed to us cash and licenses for wireless frequencies and granted us the exclusive right to use the Nextel brand name in exchange for ownership in us and our commitment to build out our compatible digital mobile network in selected markets and corridors, in most cases adjacent to operating Nextel markets. As of June 30, 2003, Nextel WIP owned 31.5% of our common stock and is our largest stockholder. By the end of 2002, we had successfully built all of the markets we were initially required to build under our 1999 agreement with Nextel. Since 1999 we have exercised options to expand our network into additional markets. By June 30, 2003, we had completed the construction of all of these additional markets. Through our affiliation with Nextel our customers have seamless nationwide coverage on the entire Nextel Digital Mobile Network.

Our senior management team has substantial operating experience, with most members averaging over 16 years in the telecommunications industry. Most members of senior management have significant experience working at AT&T Wireless, McCaw Cellular and/or Nextel. Key stockholders, in addition to Nextel WIP, include Credit Suisse First Boston through DLJ Merchant Banking Partners II, L.P. and certain of its affiliates ("DLJ Merchant Banking"), Madison Dearborn Partners, Cascade Investments (an investment company controlled by William H. Gates III), Motorola and Eagle River Investments (an investment company controlled by Craig O. McCaw).

We offer a package of wireless voice and data services under the Nextel brand name targeted primarily to business users. We currently offer the following four services, fully integrated and accessible through a single wireless handset:

digital mobile telephone service, including advanced calling features such as speakerphone, conference calling, voicemail, call forwarding and additional line service;

Direct Connect, sometimes referred to as the long-range walkie-talkie feature, which allows customers to contact each other instantly on private one-to-one calls on a nationwide basis or on group calls involving up to 100 customers in the same geographical region;

two-way messaging, which allows customers to receive and send short numeric and text messages from their handset; and

Internet services, marketed as Nextel Online Services, which provide customers with Internet-ready handsets access to the World Wide Web and web-based applications such as email, address books, calendars and advanced Java enabled business applications.

Strategy

Provide Differentiated Package of Wireless Services. Along with Nextel, we provide digital mobile telephone service, Direct Connect, two-way text and numeric messaging and Internet services fully integrated in a single wireless device with no roaming charges nationwide. We believe this "four-in-one" offering is particularly attractive to business users. We further believe that for customers who desire multiple wireless services, the convenience of combining multiple wireless communications options in a single handset for a single package price with a single billing statement is an important feature that helps distinguish us from many of our competitors.

Deliver Unparalleled Customer Service. In addition to our four-in-one service offering, our goal is to differentiate ourselves by providing the highest quality customer service in the industry, including low rates of dropped and blocked calls. In 2002, a significant part of our employees' bonus was tied to achieving a targeted level of customer satisfaction as measured in monthly surveys conducted by an outside vendor. We believe that this monetary bonus helped focus our entire company on achieving our customer service business objective, and we are providing a similar incentive to our employees in 2003.

Target Business Customers. We focus on business customers, particularly those customers who employ a mobile workforce. We have initially concentrated our sales efforts on a number of distinct groups of mobile workers, including personnel in the transportation, delivery, real property and facilities management, construction and building trades, landscaping, government, public safety and other service sectors. We expect to gradually expand our target customer groups to include additional industry groups. We believe this focus on business customers has resulted in higher monthly average revenue per unit, or ARPU, and lower average monthly service cancellations than industry averages. For second quarter 2003, our ARPU was \$66 (or \$75, including roaming revenues received from Nextel) compared to an industry average of \$48 for 2002. In addition, the average monthly rate at which our customers canceled service with us, or "churn," was approximately 1.6% during the same quarter compared to an industry average of over 2%. Our second quarter 2003 ARPU and churn rate equate to lifetime revenue per subscriber, or LRS, of approximately \$4,125, which we believe is one of the highest in the industry. See "Reconciliations of Non-GAAP Financial Measures" for more information regarding our use of ARPU and LRS as non-GAAP financial measures.

Maintain a Robust, Reliable Network. Our objective is to maintain a robust and reliable network in our markets that covers all key population areas in that market and operates seamlessly with Nextel's network. We have constructed our portion of the Nextel Digital Mobile Network using the same Motorola-developed iDEN technology used by Nextel. As required, we built and now operate our portion of the Nextel Digital Mobile Network in accordance with Nextel's standards, which enables both companies to achieve a consistent level of service throughout the United States. Our customers have access to digital quality and advanced features whether they are using our or Nextel's portion of the Nextel Digital Mobile Network. This contrasts with the hybrid analog/digital networks of cellular competitors, which do not support all features in the analog-only portions of their networks.

Maintain Effective Pricing Strategy with Focus on Mid-Sized and Tertiary Markets. We operate in mid-sized and tertiary markets, which we believe have demographics similar to markets served by Nextel. We believe our targeted customer base in these markets has historically been underserved and thus finds our differentiated service offering very attractive. We believe our focus on high quality, underserved customers, coupled with our differentiated service offering, helps allow us to rapidly increase penetration within our targeted customer base while maintaining an effective pricing strategy.

Recent Developments

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In October 2003 we delivered a notice to Nextel WIP stating our intent to redeem all of the shares of our outstanding Series B Preferred Stock currently held by Nextel WIP. We intend to consummate the redemption in the fourth quarter of 2003. As of September 30, 2003, the redemption value of the Series B Preferred Stock was \$38.3 million. Following such redemption, we will no longer have any shares of preferred stock outstanding.

Reconciliations of Non-GAAP Financial Measures (Unaudited)

The information presented in this prospectus and incorporated by reference herein includes financial information prepared in accordance with accounting principles generally accepted in the United States of America, or GAAP, as well as other financial measures that may be considered non-GAAP financial measures. Generally, a non-GAAP financial measure is a numerical measure of a company's performance, financial position or cash flows that either excludes or includes amounts that are not normally excluded or included in the most directly comparable measure calculated and presented in accordance with GAAP. As described more fully below, management believes these non-GAAP measures provide meaningful additional information about our performance and on our ability to service our long-term debt and other fixed obligations, and to fund our continued growth. The non-GAAP financial measures should be considered in addition to, but not as a substitute for, the information prepared in accordance with GAAP.

ARPU Average Revenue per Unit

ARPU is an industry term that measures total service revenues per month from our subscribers divided by the average number of subscribers in commercial service during the period. ARPU, itself, is not a measurement determined under GAAP in the United States of America and may not be similar to ARPU measures of other companies; however, ARPU uses GAAP measures as the basis for calculation. We believe that ARPU provides useful information concerning the appeal of our rate plans and service offerings and our performance in attracting high value customers. The following schedule reflects the ARPU calculation and provides a reconciliation of service revenues used for the ARPU calculation to service revenues reported on our Consolidated Statements of Operations, which we believe is the most directly comparable GAAP measure to the service revenues measure used for the ARPU calculation:

ARPU (without roaming revenues)	Year Ended December 31,			Six Months Ended June 30,		Three Months Ended June 30,	
	2000	2001	2002	2002	2003	2002	2003
(dollars and units in thousands, except for ARPU)							
Service revenues (as reported on Consolidated Statements of Operations)	\$ 130,125	\$ 363,573	\$ 646,169	\$ 281,082	\$ 427,049	\$ 153,418	\$ 226,507
Add: activation fees deferred and recognized for SAB 101	1,355	2,398	3,197	1,918	1,196	1,018	574
Less: roaming and other revenues	(25,671)	(58,545)	(80,452)	(35,756)	(49,866)	(20,218)	(26,917)
Service revenues for ARPU	\$ 105,809	\$ 307,426	\$ 568,914	\$ 247,244	\$ 378,379	\$ 134,218	\$ 200,164
Average units (subscribers)	123	360	694	604	963	653	1,005
ARPU	\$ 71	\$ 71	\$ 68	\$ 68	\$ 65	\$ 69	\$ 66

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ARPU (including roaming revenues)	Year Ended December 31,			Six Months Ended June 30,		Three Months Ended June 30,	
	2000	2001	2002	2002	2003	2002	2003
(dollars and units in thousands, except for ARPU)							
Service revenues (as reported on Consolidated Statements of Operations)	\$ 130,125	\$ 363,573	\$ 646,169	\$ 281,082	\$ 427,049	\$ 153,418	\$ 226,507
Add: activation fees deferred and recognized for SAB 101	1,355	2,398	3,197	1,918	1,196	1,018	574

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				Six Months Ended		Three Months Ended	
	(986)	(458)	(981)	June 30,		June 30,	
Less: other revenues				(406)		(221)	
Service plus roaming revenues for ARPU	\$ 130,494	\$ 365,513	\$ 648,385	\$ 282,594	\$ 428,245	\$ 154,215	\$ 227,081
Average units (subscribers)	123	360	694	604	963	653	1,005
ARPU, including roaming revenues	\$ 88	\$ 85	\$ 78	\$ 78	\$ 74	\$ 79	\$ 75

LRS Lifetime Revenue per Subscriber

LRS is an industry term calculated by dividing ARPU (see above) by the subscriber churn rate. The subscriber churn rate is an indicator of subscriber retention and represents the monthly percentage of the subscriber base that disconnects from service. Subscriber churn is calculated by dividing the number of handsets disconnected from commercial service during the period by the average number of handsets in commercial service during the period. LRS, itself, is not a measurement determined under GAAP in the United States of America and may not be similar to LRS measures of other companies; however, LRS uses GAAP measures as the basis for calculation. We believe that LRS is an indicator of the expected lifetime revenue of our average subscriber, assuming that churn and ARPU remain constant as indicated. We also believe that this measure, like ARPU, provides useful information concerning the appeal of our rate plans and service offering and our performance in attracting and retaining high value customers. The following schedule reflects the LRS calculation:

	Year Ended December 31,			Three Months Ended June 30, 2003
	2000	2001	2002	
	(dollars in thousands)			
ARPU	\$ 71	\$ 71	\$ 68	\$ 66
Churn	1.7%	1.6%	1.6%	1.6%
Lifetime revenue per subscriber	\$ 4,176	\$ 4,438	\$ 4,250	\$ 4,125

Adjusted EBITDA

The terms "EBITDA" refers to a financial measure that is defined as earnings (loss) before interest, taxes, depreciation and amortization; we use the term "Adjusted EBITDA" to reflect that our financial measure also excludes cumulative effect of change in accounting principle, loss from disposal of assets, gain (loss) from early extinguishment of debt and stock-based compensation. However, Adjusted EBITDA is not a measure determined under GAAP in the United States of America and may not be comparable to similarly titled measures reported by other companies. Adjusted EBITDA should not be construed as a substitute for operating income or as a better measure of liquidity than cash flow from operating activities, which are determined in accordance with GAAP. We have presented Adjusted EBITDA to provide additional information with respect to our ability to meet future debt service, capital expenditure and working capital requirements. The following schedule reconciles

Adjusted EBITDA to net cash provided by (used in) operating activities reported on our Consolidated Statements of Cash Flows, which we believe is the most directly comparable GAAP measure:

Year Ended December 31,			Six Months Ended June 30,	
2000	2001	2002	2002	2003

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	Year Ended December 31,			Six Months Ended June 30,	
	(dollars in thousands)				
Net cash provided by (used in) operating activities (as reported on Consolidated Statements of Cash Flows)	\$ (116,028)	\$ (153,894)	\$ (116,469)	\$ (93,789)	\$ (20,659)
Adjustments to reconcile to Adjusted EBITDA:					
Cash paid interest expense, net of capitalized amount	43,176	70,138	98,777	48,105	51,359
Interest income	(63,132)	(32,473)	(7,091)	(4,518)	(1,282)
Change in working capital	42,232	31,353	27,407	26,573	31,283
Adjusted EBITDA income (loss)	\$ (93,752)	\$ (84,876)	\$ 2,624	\$ (23,629)	\$ 60,701

Net Capital Expenditures

Net capital expenditures exclude capitalized interest and are offset by net proceeds from the sale and lease-back transactions of telecommunication towers and related assets to third parties accounted for as operating leases. Net capital expenditures as defined are not a measure determined under GAAP in the United States of America and may not be comparable to similarly titled measures reported by other companies. Net capital expenditures should not be construed as a substitute for capital expenditures reported on our Consolidated Statements of Cash Flows, which is determined in accordance with GAAP. We report net capital expenditures in this manner because we believe it reflects the net cash used by us for capital expenditures and to satisfy the reporting requirements for our debt covenants. The following schedule reconciles net capital expenditures to capital expenditures reported on our Consolidated Statements of Cash Flows, which we believe is the most directly comparable GAAP measure:

	Year Ended December 31,			Six Months Ended June 30,	
	2000(1)	2001(1)	2002(1)	2002	2003
	(dollars in thousands)				
Capital expenditures (as reported on Consolidated Statements of Cash Flows)	\$ 264,513	\$ 398,611	\$ 274,911	\$ 148,054	\$ 84,824
Less: cash paid portion of capitalized interest	(5,545)	(5,449)	(1,993)	(1,103)	(676)
Less: cash proceeds from sale and lease-back transactions accounted for as operating leases	(9,259)	(10,425)	(2,562)	(1,848)	(6,250)
Change in capital expenditures accrued or unpaid	53,864	(8,736)	(19,515)	(6,027)	10,768
Net capital expenditures	\$ 303,573	\$ 374,001	\$ 250,841	\$ 139,076	\$ 88,666

(1) Certain amounts have been conformed to the current year presentation.

Corporate Information

We were incorporated in the State of Delaware in July 1998. Our principal executive offices are located at 4500 Carillon Point, Kirkland, Washington 98033. Our telephone number is 425-576-3600.

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Securities Offered	\$175,000,000 principal amount of 1 ¹ / ₂ % Convertible Senior Notes due 2008.
Maturity Date	November 15, 2008.
Interest	1 ¹ / ₂ % per annum on the principal amount, payable semi-annually in arrears in cash on May 15 and November 15 of each year, beginning November 15, 2003.
Conversion	You may convert the notes into shares of our Class A common stock at a conversion rate of 131.9087 shares per \$1,000 principal amount of notes, subject to adjustment, prior to the close of business on the final maturity date.
Redemption	We may not redeem any of the notes at our option prior to their maturity.
Ranking	The notes will be senior unsecured debt and will rank on a parity with all of our other existing and future senior unsecured debt and prior to all of our subordinated debt.
Fundamental Change	If a fundamental change (as described under "Description of Notes Redemption at Option of the Holder") occurs prior to maturity, you may require us to purchase all or part of your notes at a redemption price equal to 100% of their principal amount, plus accrued and unpaid interest.
Nasdaq National Market Symbol	NXTP.
Risk Factors	You should read the "Risk Factors" section beginning on page 8 of this prospectus as well as the other cautionary statements throughout the entire prospectus, to ensure that you understand the risks associated with an investment in the notes and Class A common stock.

For a more complete description of the terms of the notes, see "Description of Notes." For a more complete description of the Class A common stock, see "Description of Capital Stock."

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RATIO OF EARNINGS TO FIXED CHARGES

The following table sets forth our consolidated ratio of earnings to fixed charges for each of the periods indicated:

Year Ended December 31,			Six Months Ended June 30,	
2000	2001	2002	2002	2003

(unaudited)

(dollars in thousands)

Ratio of earnings (loss) to fixed charges(1)

- (1) Earnings (loss) represent earnings (loss) before deferred income tax provision and cumulative effect of change in accounting principle and fixed charges (excluding capitalized interest). Fixed charges consist of interest (including capitalized interest), amortization of deferred financing costs and the estimated portion of rental expense that is representative of the interest factor. For the years ended December 31, 2000, 2001 and 2002 and the six months ended June 30, 2002 and 2003, earnings were insufficient to cover charges by \$280,852, \$298,494, \$267,529, \$152,440, \$153,109, respectively. The difference between the deficiency disclosed above and the net loss before deferred income tax provision and cumulative effect of change in accounting principle in all periods presented represents interest capitalized by us.

RISK FACTORS

You should carefully consider the risks described below before making an investment decision. The risks described below are not the only ones facing our company. Additional risks not presently known to us or that we currently deem immaterial may also impair our business operations.

Our business, financial condition or results of operations could be materially adversely affected by any of these risks. The trading price of the notes and our Class A common stock could decline due to any of these risks, and you may lose all or part of your investment.

This prospectus also contains forward-looking statements that involve risks and uncertainties. Our actual results could differ materially from those anticipated in these forward-looking statements as a result of certain factors, including the risks faced by us described below and elsewhere in this prospectus.

We have a history of operating losses, may incur operating losses in the future and may not be able to generate the earnings necessary to fund our operations, sustain the continued growth of our business or repay our debt obligations.

We did not commence commercial operations until January 29, 1999, and the portion of the Nextel Digital Mobile Network we began operating on that date only had a few months of operating history. Since then, we have had a history of operating losses, and, as of June 30, 2003, we had an accumulated deficit of approximately \$1.1 billion. We may incur operating losses in the future. We cannot assure you that we will become profitable or sustain profitability in the future. If we fail to achieve significant and sustained growth in our revenues and earnings from operations, we will not have sufficient cash to fund our current operations, sustain the continued growth of our business or repay our debt obligations, including the notes. In addition, the slowdown in the U.S. economy generally has added economic and consumer uncertainty that could adversely affect our revenue growth. Our failure to fund our operations or continued growth would have an adverse impact on our financial condition, and our failure to make any required payments would result in defaults under all of our debt agreements, which could result in the cessation of our business.

If Nextel experiences financial or operational difficulties, our business may be adversely affected.

Our business plan depends, in part, on Nextel continuing to build and sustain customer support of its brand and the Motorola iDEN technology. If Nextel encounters financial problems or operating difficulties relating to its portion of the Nextel Digital Mobile Network or experiences a significant decline in customer acceptance of its products or the Motorola iDEN technology, our affiliation with and dependence on Nextel may adversely affect our business, including the quality of our services, the ability of our customers to roam within the entire network and our ability to attract and retain customers. Additional information regarding Nextel, its domestic digital mobile network business and the risks associated with that business can be found in Nextel's Annual Report on Form 10-K for the year ended December 31, 2002, as well as Nextel's other filings made under the Securities Act and the Securities Exchange Act (SEC file number 0-19656).

Our highly leveraged capital structure and other factors could limit our ability to obtain additional financing and our growth opportunities and could adversely affect our ability to fulfill our obligations on the notes.

The total of our non-current portion of our outstanding debt and mandatorily redeemable preferred stock outstanding is approximately \$1.7 billion as of June 30, 2003 and greatly exceeds the level of our revenues and stockholders' equity. As of June 30, 2003, the non-current portion of total long-term debt outstanding included \$371.4 million outstanding under our credit facility, \$21.3 million of 14% senior discount notes outstanding at their accreted value, \$390.0 million of 11% senior notes outstanding, \$212.2 million of 12¹/₂% senior discount notes outstanding at their accreted value,

\$175.0 million of 1¹/₂% convertible senior notes outstanding, \$450.0 million of 8¹/₈% senior notes outstanding and \$22.6 million of capital lease obligations. We also had approximately \$37.1 million of mandatorily redeemable preferred stock outstanding, including accrued dividends. In aggregate, this indebtedness represented approximately 105% of our total book capitalization at that date.

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Our large amount of outstanding indebtedness, and the fact that we may need to incur additional debt in the future, could significantly impact our business for the following reasons:

it limits our ability to obtain additional financing, if needed, to continue the build-out of or implement any enhancement of our portion of the Nextel Digital Mobile Network, including any enhanced iDEN services to expand wireless voice capacity, enhanced data services or potential "third generation" or "3G" mobile wireless services, to cover our cash flow deficit or for working capital, other capital expenditures, debt service requirements or other purposes;

it will require us to dedicate a substantial portion of our operating cash flow to fund interest expense on our credit facility and other indebtedness, reducing funds available for our build-out, operations or other purposes;

it makes us vulnerable to interest rate fluctuations because our credit facility term loan bears interest at variable rates; and

it limits our ability to compete with competitors who are not as highly leveraged, especially those who may be able to price their service packages at levels below those, which we can or are willing to match.

Our ability to make payments on our indebtedness, including these notes, and to fund planned capital expenditures will depend on our ability to generate cash in the future. This, to a certain extent, is subject to general economic, financial, competitive, legislative, regulatory and other factors that are beyond our control. Based on our current level of operations and anticipated cost savings and operating improvements, we believe our cash flow from operations, available cash and available borrowings under our credit facility will be adequate to meet our estimated capital requirements to build out our portion of the Nextel Digital Mobile Network using the current 800 MHz iDEN system.

We cannot be sure, however, that our business will generate sufficient cash flow from operations, that currently anticipated cost savings and operating improvements will be realized on schedule or that future borrowings will be available to us under our credit facility in an amount sufficient to enable us to pay our indebtedness, including these notes, our obligations under our credit facility or our existing senior discount notes and senior notes, or to fund our other liquidity needs. In addition, if our indebtedness cannot be repaid at maturity or refinanced, we will not be able to meet our obligations under our debt agreements, including these notes, which could result in the cessation of our business.

If we default on our debt or if we were liquidated, the value of our assets may not be sufficient to satisfy our obligations, including these notes. We have a significant amount of intangible assets, such as licenses granted by the FCC. The value of these licenses will depend significantly upon the success of our business and the growth of the SMR and wireless communication industry in general.

General conditions in the wireless communications industry or specific competitors' results, including potential slowing of new subscriber additions, declining ARPU or increased customer dissatisfaction, may adversely affect the market price of our notes and Class A common stock and, as a result, could impair our ability to raise additional capital through the sale of our equity or debt securities. In addition, the fundraising efforts of Nextel or any of its affiliates may also adversely affect our ability to raise additional funds.

Under certain circumstances, Nextel WIP has the ability to purchase, and a majority of our Class A stockholders can cause Nextel WIP to purchase, all of our outstanding Class A common stock.

Under our restated certificate of incorporation and our operating agreements, in certain circumstances and subject to certain limitations, Nextel WIP has the ability to purchase, or to cause and fund redemption by us of, all of the outstanding shares of our Class A common stock, including any shares of Class A common stock issuable upon conversion of the notes. In addition, under the provisions of our restated certificate of incorporation, upon the occurrence of certain events, the holders of a majority of our outstanding Class A common stock can require Nextel WIP to purchase, or cause and fund a redemption by us of, all of the outstanding shares of our Class A common stock, including any shares of Class A common stock issuable upon conversion of the notes. The circumstances that could trigger Nextel WIP's purchase right include the occurrence of January 29, 2008 (subject to certain postponements by our board of directors); a failure by us to implement certain required changes to our business; a failure by Nextel WIP to fund certain changes to the digital transmission technology; or termination of our operating agreements with Nextel WIP as a result of our breach. The circumstances that could trigger our stockholders' put right include a change of control of Nextel; failure by us in certain circumstances to implement changes to our business; or termination of our operating agreements with Nextel WIP as a result of a breach by Nextel WIP.

Any failure to integrate our portion of the Nextel Digital Mobile Network with Nextel's portion effectively or on schedule would have an adverse effect on our results of operations.

Pursuant to our operating agreements with Nextel WIP, Nextel WIP provides us with important services and assistance, including a license to use the Nextel brand name and the sharing of switches that direct calls to their destinations. Any interruption in the provision of these services could delay or prevent the successful integration of our portion of the Nextel Digital Mobile Network with Nextel's portion, which is essential to the overall success of our business.

Moreover, our business plan depends on our ability to implement integrated customer service, network management and billing systems with Nextel's systems to allow our respective portions of the Nextel Digital Mobile Network to operate together, and provide our and Nextel's customers with seamless service. Integration requires that numerous and diverse computer hardware and software systems work together. Any failure to integrate these systems effectively or on schedule may have an adverse effect on our results of operations.

Difficulties in constructing and operating our portion of the Nextel Digital Mobile Network could increase the estimated costs and delay the continued expansion of the network, which would adversely affect our ability to generate revenue.

The continued operation of our portion of the Nextel Digital Mobile Network involves a high degree of risk. Before we are able to build additional cell sites in our markets to expand coverage, fill in gaps in coverage or increase capacity, we will need to:

select and acquire appropriate sites for our transmission equipment, or cell sites;

purchase and install low-power transmitters, receivers and control equipment, or base radio equipment;

build out the physical infrastructure;

obtain interconnection services from local telephone service carriers on a timely basis; and

test the cell site.

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Our ability to perform these necessary steps successfully may be hindered by, among other things, any failure to:

lease or obtain rights to sites for the location of our base radio equipment;

obtain necessary zoning and other local approvals with respect to the placement, construction and modification of our facilities;

acquire additional necessary radio frequencies from third parties or exchange radio frequency licenses with Nextel WIP;

commence and complete the construction of sites for our equipment in a timely and satisfactory manner; and

obtain necessary approvals, licenses and permits from federal, state and local agencies, including land use regulatory approvals and approval from the Federal Aviation Administration and Federal Communications Commission with respect to the transmission towers that we will be using.

Before fully implementing our portion of the Nextel Digital Mobile Network in a new market area or expanding coverage in an existing market area, we must complete systems design work, find appropriate sites and construct necessary transmission structures, receive regulatory approvals, free up frequency channels now devoted to non-digital transmissions and begin systems optimization. These processes may take

weeks or months to complete and may be hindered or delayed by many factors, including unavailability of antenna sites at optimal locations, land use and zoning controversies and limitations of available frequencies. In addition, we may experience cost overruns and delays not within our control caused by acts of governmental entities, design changes, material and equipment shortages, delays in delivery and catastrophic occurrences. Any failure to construct our portion of the Nextel Digital Mobile Network on a timely basis may affect our ability to provide the quality of services in our markets consistent with our current business plan, and any significant delays could have a material adverse effect on our business.

If we do not offer services that Nextel WIP requires us to offer or we fail to meet performance standards, we risk termination of our agreements with Nextel WIP, which would eliminate our ability to carry out our current business plan and strategy.

Our operating agreements with Nextel WIP require us to construct and operate our portion of the Nextel Digital Mobile Network to specific standards, and to offer certain services by Nextel and its domestic subsidiaries. Our failure to satisfy these obligations could constitute a material default under the operating agreements that would give Nextel WIP the right to terminate these agreements, and would terminate our right to use the Nextel brand. The non-renewal or termination of the Nextel WIP operating agreements would eliminate our ability to carry out our current business plan and strategy and would adversely affect our financial condition.

We may be required to implement material changes to our business operations to the extent these changes are adopted by Nextel, which may not be beneficial to our business.

If Nextel adopts material changes to its operations, our operating agreements with Nextel WIP give it the right to require us to make similar changes to our operations. The failure to implement required changes could, under certain circumstances, trigger the ability of Nextel WIP to terminate their operating agreements with us, which could result in the adverse effects described above. Even if the required change is beneficial to Nextel, the effect on our business may vary due to differences in markets and customers. We cannot assure you that such changes would not adversely affect our business plan.

The transmission technology used by us and Nextel is different from that used by most other wireless carriers, and, as a result, we might not be able to keep pace with industry standards if more widely used technologies advance.

The Nextel Digital Mobile Network uses scattered, non-contiguous radio spectrum near the frequencies used by cellular carriers. Because of their fragmented character, these frequencies traditionally were only usable for two-way radio calls, such as those used to dispatch taxis and delivery vehicles. Nextel became able to use these frequencies to provide a wireless telephone service competitive with cellular carriers only when Motorola developed a proprietary technology it calls "iDEN." We, Nextel, and Southern LINC are currently the only major U.S. wireless service providers utilizing iDEN technology on a nationwide basis, and iDEN phones are not currently designed to roam onto other domestic wireless networks.

Our operating agreements with Nextel WIP require us to use the iDEN technology in our system and prevent us from adopting any new communications technologies that may perform better or are available at a lower cost without Nextel WIP's consent.

Future technological advancements may enable other wireless technologies to equal or exceed our current levels of service and render iDEN technology obsolete. If Motorola is unable to upgrade or improve iDEN technology or develop other technology to meet future advances in competing technologies on a timely basis, or at an acceptable cost, because of the restrictive provisions in our operating agreements with Nextel WIP, we will be less able to compete effectively and could lose customers to our competitors, all of which would have an adverse effect on our business and financial condition.

We are dependent on Motorola for telecommunications equipment necessary for the operation of our business, and any failure of Motorola to perform would adversely affect our operating results.

Motorola is currently our sole-source supplier of transmitters used in our network and wireless telephone equipment used by our customers, and we rely, and expect to continue to rely, on Motorola to manufacture a substantial portion of the equipment necessary to construct our share of the Nextel Digital Mobile Network. We expect that for the next few years, Motorola, and other manufacturers who are licensed by Motorola, will be the only manufacturers of wireless telephones that are compatible with the Nextel Digital Mobile Network. If Motorola becomes unable to deliver such equipment, or refuses to do so on reasonable terms, then we may not be able to service our existing subscribers or add new subscribers and our business would be adversely affected. Motorola and its affiliates engage in wireless communications businesses and may in the future engage in additional businesses that do or may compete with some or all of the services we offer. We cannot assure you that any potential conflict of interest between us and Motorola will not adversely affect our ability to obtain equipment in the future. In addition, the

failure by Motorola to deliver necessary technology improvements and enhancements and system infrastructure and subscriber equipment on a timely, cost-effective basis would have an adverse effect on our growth and operations. We generally have been able to obtain adequate quantities of base radios and other system infrastructure equipment from Motorola, and adequate volumes and mix of wireless telephones and related accessories from Motorola, to meet subscriber and system loading rates, but we cannot be sure that equipment quantities will be sufficient in the future. Additionally, in the event of shortages of that equipment, our agreements with Nextel WIP provide that available supplies of this equipment would be allocated proportionately between Nextel and us.

Costs and other aspects of a future deployment of advanced digital technology could adversely affect our operations and growth.

Based on our current outlook and the current outlook of Nextel, we anticipate eventually deploying advanced digital technology that will allow high capacity wireless voice and high-speed data transmission, and potentially other advanced digital services. The technology that we would deploy to provide these types of broadband wireless services is sometimes referred to as "third-generation" or "3G." We and Nextel are focusing activities on maximizing our ability to offer 3G capabilities while continuing to fully utilize our iDEN digital mobile network. Significant capital expenditures would be required in implementing this 3G technology, and we cannot assure you that we will have the financial resources necessary to fund these expenditures or, if we do implement this technology, that it would provide the advantages that we would expect. Moreover, it may be necessary to acquire additional frequencies to implement 3G technologies, and we cannot be sure that we will be able to obtain such spectrum on reasonable terms, if at all. The actual amount of the funds required to finance and implement this technology may significantly exceed our current estimate. Further, any future implementation could require additional unforeseen capital expenditures in the event of unforeseen delays, cost overruns, unanticipated expenses, regulatory changes, engineering design changes, equipment unavailability and technological or other complications. In addition, there are several types of 3G technologies that may not be fully compatible with each other or with other currently deployed digital technologies. If the type of technology that we either choose to deploy or are required to deploy to maintain compatibility with the technology chosen by Nextel does not gain widespread acceptance or perform as expected, or if our competitors develop 3G technology that is more effective or economical than ours, our business would be adversely affected.

We may not be able to obtain additional spectrum, which may adversely impact our ability to implement our business plan.

We may seek to acquire additional spectrum, including through participation as a bidder, or member of a bidding group in government-sponsored auctions of spectrum. We may not be able to accomplish any spectrum acquisition or the necessary additional capital for that purpose may not be available on acceptable terms, or at all. If sufficient additional capital is not available, to the extent we are able to complete any spectrum acquisition, the amount of funding available to us for our existing businesses would be reduced. Even if we are able to acquire spectrum, we may still require additional capital to finance the pursuit of any new business opportunities associated with our acquisitions of additional spectrum, including those associated with the potential provision of any new "third-generation" or "3G" wireless services. This additional capital may not be available.

Our future performance will depend on our and Nextel's ability to succeed in the highly competitive wireless communications industry.

Our ability to compete effectively with established and prospective wireless communications service providers depends on many factors, including the following:

If the wireless communications technology that we and Nextel use does not continue to perform in a manner that meets customer expectations, we will be unable to attract and retain customers. Customer acceptance of the services we offer is and will continue to be affected by technology-based differences and by the operational performance and reliability of system transmissions on the Nextel Digital Mobile Network. If we are unable to address and satisfactorily resolve performance or other transmission quality issues as they arise, including transmission quality issues on Nextel's portion of the Nextel Digital Mobile Network, we may have difficulty attracting and retaining customers, which would adversely affect our revenues.

Personal communication services or cellular operators have begun to provide two-way radio dispatch services, which may affect our competitive advantage of historically being uniquely able to combine that service with our mobile telephone service. Further, some of our competitors have attempted to compete with Direct Connect by offering unlimited mobile-to-mobile calling plan features and reduced rate calling plan features for designated small groups. If these calling

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plan modifications are perceived by our existing and potential customers as viable substitutes for our differentiated services, our business may be adversely affected.

Because the Nextel Digital Mobile Network does not currently provide roaming or similar coverage on a nationwide basis that is as extensive as is available through most cellular and personal communication services providers, we may not be able to compete effectively against those providers. In addition, some of our competitors provide their customers with handsets with both digital and analog capability, which expands their coverage, while we have only digital capability. We cannot be sure that we, either alone or together with Nextel, will be able to achieve comparable system coverage or that a sufficient number of customers or potential customers will be willing to accept system coverage limitations as a trade-off for our multi-function wireless communications package.

Neither we nor Nextel has the extensive direct and indirect channels of distribution for the Nextel Digital Mobile Network products and services that are available to some of our competitors. The lack of these distribution channels could adversely affect our operating results. Although we have recently launched a pilot program to expand our distribution channels to include retail locations, we cannot assure you that this program will be successful. Moreover, many of our competitors have established extensive networks of retail locations, including locations dedicated solely to their products, and multiple distribution channels and, therefore, have access to more potential customers than we do.

Because of their greater resources, some of our competitors may be able to offer services to customers at prices that are below the prices that we can offer for comparable services. If we cannot, as a result, compete effectively based on the price of our service offerings, our revenues and growth may be adversely affected.

The wireless telecommunications industry is experiencing significant technological change. Our digital technology could become obsolete. We rely on digital technology that is not compatible with, and that competes with, other forms of digital and non-digital voice communication technology. Competition among these differing technologies can result in the following: segment the user markets, which could reduce demand for specific technologies, including our technology; reduce the resources devoted by third-party suppliers, including Motorola, which supplies all of our current digital technology, to developing or improving the technology for our systems; and adversely affect market acceptance of our services.

We offer our subscribers access to digital two-way mobile data and Internet connectivity under the brand name Nextel Online. We cannot be sure that these services will continue to perform satisfactorily, be utilized by a sufficient number of our subscribers or produce sufficient levels of customer satisfaction or revenue. Because we have less spectrum than some of our competitors, and because we have elected to defer the implementation of "third generation" or "3G" services, any digital two-way mobile data and Internet connectivity services that we may offer could be significantly limited compared to those services offered by other wireless communications providers with larger spectrum positions. The success of these new services will be jeopardized if: we are unable to offer these new services profitably; these new service offerings adversely impact the performance or reliability of the Nextel Digital Mobile Network; we, Nextel or third-party developers fail to develop new applications for our customers; or we

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otherwise do not achieve a satisfactory level of customer acceptance and utilization of these services.

We expect that as the number of wireless communications providers in our market areas increases, including providers of both digital and analog services, our competitors' prices in these markets will decrease. We may encounter further market pressures to reduce our digital mobile network service offering prices; restructure our digital mobile network service offering packages to offer more value; or respond to particular short-term, market-specific situations, for example, special introductory pricing or packages that may be offered by new providers launching their services in a particular market. A reduction in our pricing would likely have an adverse effect on our revenues and operating results.

Because of the numerous features we offer, our mobile handsets are, and are likely to remain, significantly more expensive than mobile analog telephones and are, and are likely to remain, somewhat more expensive than digital cellular or personal

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communication services telephones that do not incorporate a comparable multi-function capability. The higher cost of our equipment may make it more difficult or less profitable to attract customers who do not place a high value on our unique multi-service offering. This may reduce our growth opportunities or profitability.

Recent agreements between competitors in some of our markets to share network construction efforts will reportedly reduce their costs and increase their coverage area. These agreements, along with future agreements, may increase market pressure for us to reduce our prices and expand our coverage areas.

Our network may not have sufficient capacity to support our anticipated customer growth.

Our business plan depends on assuring that our portion of the Nextel Digital Mobile Network has adequate capacity to accommodate anticipated new customers and the related increase in usage of our network. This plan relies on:

the ability to obtain additional spectrum when and where required;

the availability of wireless telephones of the appropriate model and type to meet the demands and preferences of our customers; and

the ability to obtain and construct additional cell sites and other infrastructure equipment.

We cannot assure you that we will not experience unanticipated difficulties in obtaining these items, which could adversely affect our ability to build our portion of the network.

We have potential systems limitations on adding customers, which may adversely affect our growth and performance.

Our success in generating revenues by attracting and retaining large numbers of customers to our portion of the Nextel Digital Mobile Network is critical to our business plan. In order to do so, we must develop effective procedures for customer activation, customer service, billing and other support services. Even if our system is functional on a technical basis, we may encounter other factors that could adversely affect our ability to successfully add customers to our portion of the Nextel Digital Mobile Network, including:

inadequate or inefficient systems, business process and related support functions especially as related to customer service and accounts receivable collection; and

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372,568 shares of our common stock reserved for future issuance under our 2014 Employee Stock Purchase Plan as of September 30, 2018, which contains provisions that may increase its share reserve each year; and

798,553 shares of our common stock issuable upon the exercise of outstanding warrants as of September 30, 2018, with a weighted-average exercise price of \$8.05 per share.

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Purchasers of common stock in this offering will experience immediate dilution to the extent of the difference between the public offering price per share of common stock and the net tangible book value per share of common stock immediately after this offering.

Our net tangible book value as of September 30, 2018 was approximately \$(1.9) million, or \$(0.05) per share of common stock. Net tangible book value per share is determined by dividing the net of total tangible assets less total liabilities, by the aggregate number of shares of common stock outstanding as of September 30, 2018. After giving effect to the sale by us of 2,000,000 shares of common stock at the public offering price of \$24.50 per share of common stock, and after deducting underwriting discounts and commissions and estimated offering expenses, our as adjusted net tangible book value as of September 30, 2018 would have been approximately \$44.0 million, or \$1.08 per share of common stock. This represents an immediate increase in as adjusted net tangible book value of \$1.13 per share to our existing stockholders and an immediate dilution of \$23.42 per share of common stock issued to the investors purchasing shares of common stock in this offering.

The following table illustrates this per share dilution:

Public offering price per share of common stock		\$ 24.50
Net tangible book value per share as of September 30, 2018	\$ (0.05)	
Increase in net tangible book value per share attributable to this offering	\$ 1.13	
Net tangible book value per share after this offering		\$ 1.08
Dilution per share to investors participating in this offering		\$ 23.42

If the underwriters exercise their option in full to purchase 300,000 additional shares of common stock in this offering at the public offering price of \$24.50 per share, the net tangible book value per share after this offering would be \$1.24 per share, the increase in the net tangible book value per share to existing stockholders would be \$1.29 per share and the dilution to investors purchasing securities in this offering would be \$23.26 per share.

The above table excludes:

894,304 shares of our common stock issuable upon the vesting of restricted stock units outstanding under our equity incentive plans as of September 30, 2018, with a weighted-average grant date fair value of \$9.41 per share;

2,532,171 shares of our common stock issuable upon the exercise of stock options outstanding under equity incentive plans as of September 30, 2018, with a weighted-average exercise price of \$7.23 per share;

29,344 shares of our common stock reserved for future issuance under our 2016 Inducement Plan as of September 30, 2018;

532,659 shares of our common stock reserved for future issuance under our 2014 Equity Incentive Plan as of September 30, 2018, which contains provisions that may increase its share reserve each year;

372,568 shares of our common stock reserved for future issuance under our 2014 Employee Stock Purchase Plan as of September 30, 2018, which contains provisions that may increase its share reserve each year; and

798,553 shares of our common stock issuable upon the exercise of outstanding warrants as of September 30, 2018, with a weighted-average exercise price of \$8.05 per share.

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To the extent that outstanding options or warrants outstanding are exercised, new options or other equity awards are issued under our equity incentive plans, or we issue additional shares of common stock or other equity or convertible debt securities in the future, there may be further dilution to investors participating in this offering. Moreover, we may choose to raise additional capital because of market conditions or strategic considerations, even if we believe that we have sufficient funds for our current or future operating plans. If we raise additional capital through the sale of equity or convertible debt securities, the issuance of these securities could result in further dilution to our stockholders.

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Subject to the terms and conditions set forth in the underwriting agreement, dated November 13, 2018, among us and Jefferies LLC and Piper Jaffray & Co., as the representatives of the underwriters named below and the joint book-running managers of this offering, we have agreed to sell to the underwriters, and each of the underwriters has agreed, severally and not jointly, to purchase from us, the respective number of shares of common stock shown opposite its name below:

Underwriter	Number of Shares
Jefferies LLC	860,000
Piper Jaffray & Co.	740,000
Craig-Hallum Capital Group LLC	400,000
Total	2,000,000

The underwriting agreement provides that the obligations of the several underwriters are subject to certain conditions precedent such as the receipt by the underwriters of officers' certificates and legal opinions and approval of certain legal matters by their counsel. The underwriting agreement provides that the underwriters will purchase all of the shares of common stock if any of them are purchased. If an underwriter defaults, the underwriting agreement provides that the purchase commitments of the nondefaulting underwriters may be increased or the underwriting agreement may be terminated. We have agreed to indemnify the underwriters and certain of their controlling persons against certain liabilities, including liabilities under the Securities Act, and to contribute to payments that the underwriters may be required to make in respect of those liabilities.

The underwriters have advised us that, following the completion of this offering, they currently intend to make a market in the common stock as permitted by applicable laws and regulations. However, the underwriters are not obligated to do so, and the underwriters may discontinue any market-making activities at any time without notice in their sole discretion. Accordingly, no assurance can be given as to the liquidity of the trading market for the common stock, that you will be able to sell any of the common stock held by you at a particular time or that the prices that you receive when you sell will be favorable.

The underwriters are offering the shares of common stock subject to their acceptance of the shares of common stock from us and subject to prior sale. The underwriters reserve the right to withdraw, cancel or modify offers to the public and to reject orders in whole or in part.

Commission and Expenses

The underwriters have advised us that they propose to offer the shares of common stock to the public at the public offering price set forth on the cover page of this prospectus supplement and to certain dealers, which may include the underwriters, at that price less a concession not in excess of \$0.882 per share of common stock. After the offering, the public offering price and concession to dealers may be reduced by the representatives. No such reduction will change the amount of proceeds to be received by us as set forth on the cover page of this prospectus supplement.

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The following table shows the public offering price, the underwriting discounts and commissions that we are to pay the underwriters and the proceeds, before expenses, to us in connection with this offering. Such amounts are shown assuming both no exercise and full exercise of the underwriters' option to purchase additional shares.

	Per Share		Total	
	Without Option to Purchase Additional Shares	With Option to Purchase Additional Shares	Without Option to Purchase Additional Shares	With Option to Purchase Additional Shares
Public offering price	\$ 24.50	\$ 24.50	\$ 49,000,000	\$ 56,350,000
Underwriting discounts and commissions paid by us	\$ 1.47	\$ 1.47	\$ 2,940,000	\$ 3,381,000
Proceeds to us, before expenses	\$ 23.03	\$ 23.03	\$ 46,060,000	\$ 52,969,000

We estimate expenses payable by us in connection with this offering, other than the underwriting discounts and commissions referred to above, will be approximately \$205,000. We have also agreed to reimburse the underwriters for certain of their expenses in an amount up to \$15,000.

Listing

Our common stock is listed on the Nasdaq Global Market under the trading symbol **CDNA**.

Option to Purchase Additional Shares

We have granted to the underwriters an option, exercisable for 30 days from the date of this prospectus supplement, to purchase, from time to time, in whole or in part, up to an aggregate of 300,000 shares of common stock from us at the public offering price set forth on the cover page of this prospectus supplement, less underwriting discounts and commissions. If the underwriters exercise this option, each underwriter will be obligated, subject to specified conditions, to purchase a number of additional shares of common stock proportionate to that underwriter's initial purchase commitment as indicated in the table above.

No Sales of Similar Securities

We, and our officers and directors, have agreed, subject to specified exceptions, not to directly or indirectly:

sell, offer, contract or grant any option to sell (including any short sale), pledge, transfer, establish an open put equivalent position within the meaning of Rule 16a-1(h) under the Securities Exchange Act of 1934, as amended, or

otherwise dispose of any shares of common stock, options or warrants to acquire shares of common stock, or securities exchangeable or exercisable for or convertible into shares of common stock currently or hereafter owned either of record or beneficially, or

publicly announce an intention to do any of the foregoing for a period of 90 days after the date of this prospectus supplement without the prior written consent of Jefferies LLC and Piper Jaffray & Co.

This restriction terminates after the close of trading of the common stock on and including the 90th day after the date of this prospectus supplement. The exceptions to the restrictions in the immediately preceding paragraph include, among others, with respect to our directors and officers, certain transfers pursuant to 10b5-1 Plans. We expect an aggregate of up to approximately 80,000 shares of our common stock to be sold during the lock-up period pursuant to 10b5-1 Plans that are currently in effect, including 50,000 shares to be sold by our Chief Executive Officer within three days following our release of earnings for the quarter ended September 30, 2018. We also expect an aggregate of up to an additional 100,000 shares of our common stock to be sold by our Chief Executive Officer during the lock-up period.

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Jefferies LLC and Piper Jaffray & Co. may, in their sole discretion and at any time or from time to time before the termination of the 90-day period release all or any portion of the securities subject to lock-up agreements. There are no existing agreements between the underwriters and any of our stockholders who will execute a lock-up agreement, providing consent to the sale of shares prior to the expiration of the lock-up period.

Stabilization

The underwriters have advised us that they, pursuant to Regulation M under the Securities Exchange Act of 1934, as amended, and certain persons participating in the offering may engage in short sale transactions, stabilizing transactions, syndicate covering transactions or the imposition of penalty bids in connection with this offering. These activities may have the effect of stabilizing or maintaining the market price of the common stock at a level above that which might otherwise prevail in the open market. Establishing short sales positions may involve either covered short sales or naked short sales.

Covered short sales are sales made in an amount not greater than the underwriters' option to purchase additional shares of our common stock in this offering. The underwriters may close out any covered short position by either exercising their option to purchase additional shares of our common stock or purchasing shares of our common stock in the open market. In determining the source of shares to close out the covered short position, the underwriters will consider, among other things, the price of shares available for purchase in the open market as compared to the price at which they may purchase shares through the option to purchase additional shares.

Naked short sales are sales in excess of the option to purchase additional shares of our common stock. The underwriters must close out any naked short position by purchasing shares in the open market. A naked short position is more likely to be created if the underwriters are concerned that there may be downward pressure on the price of the shares of our common stock in the open market after pricing that could adversely affect investors who purchase in this offering.

A stabilizing bid is a bid for the purchase of shares of common stock on behalf of the underwriters for the purpose of fixing or maintaining the price of the common stock. A syndicate covering transaction is the bid for or the purchase of shares of common stock on behalf of the underwriters to reduce a short position incurred by the underwriters in connection with the offering. Similar to other purchase transactions, the underwriter's purchases to cover the syndicate short sales may have the effect of raising or maintaining the market price of our common stock or preventing or retarding a decline in the market price of our common stock. As a result, the price of our common stock may be higher than the price that might otherwise exist in the open market. A penalty bid is an arrangement permitting the underwriters to reclaim the selling concession otherwise accruing to a syndicate member in connection with the offering if the common stock originally sold by such syndicate member are purchased in a syndicate covering transaction and therefore have not been effectively placed by such syndicate member.

Neither we, nor any of the underwriters make any representation or prediction as to the direction or magnitude of any effect that the transactions described above may have on the price of our common stock. The underwriters are not obligated to engage in these activities and, if commenced, any of the activities may be discontinued at any time.

The underwriters may also engage in passive market making transactions in our common stock on the Nasdaq Global Market in accordance with Rule 103 of Regulation M during a period before the commencement of offers or sales of shares of our common stock in this offering and extending through the completion of

distribution. A passive market maker must display its bid at a price not in excess of the highest independent bid of that security. However, if all independent bids are lowered below the passive market maker's bid, that bid must then be lowered when specified purchase limits are exceeded.

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Electronic Distribution

A prospectus supplement and the accompanying prospectus in electronic format may be made available by e-mail or on the web sites or through online services maintained by one or more of the underwriters or their affiliates. In those cases, prospective investors may view offering terms online and may be allowed to place orders online. The underwriters may agree with us to allocate a specific number of shares of common stock for sale to online brokerage account holders. Any such allocation for online distributions will be made by the underwriters on the same basis as other allocations. Other than the prospectus supplement and the accompanying prospectus in electronic format, the information on the underwriters' web sites and any information contained in any other web site maintained by any of the underwriters is not part of this prospectus supplement and the accompanying prospectus, has not been approved and/or endorsed by us or the underwriters and should not be relied upon by investors.

Other Activities and Relationships

The underwriters and certain of their affiliates are full service financial institutions engaged in various activities, which may include securities trading, commercial and investment banking, financial advisory, investment management, investment research, principal investment, hedging, financing and brokerage activities. The underwriters and certain of their affiliates have, from time to time, performed, and may in the future perform, various commercial and investment banking and financial advisory services for us and our affiliates, for which they received or will receive customary fees and expenses.

In the ordinary course of their various business activities, the underwriters and certain of their affiliates may make or hold a broad array of investments and actively trade debt and equity securities (or related derivative securities) and financial instruments (including bank loans) for their own account and for the accounts of their customers, and such investment and securities activities may involve securities and/or instruments issued by us and our affiliates. If the underwriters or their respective affiliates have a lending relationship with us, they routinely hedge their credit exposure to us consistent with their customary risk management policies. The underwriters and their respective affiliates may hedge such exposure by entering into transactions which consist of either the purchase of credit default swaps or the creation of short positions in our securities or the securities of our affiliates, including potentially the common stock offered hereby. Any such short positions could adversely affect future trading prices of the common stock offered hereby. The underwriters and certain of their respective affiliates may also communicate independent investment recommendations, market color or trading ideas and/or publish or express independent research views in respect of such securities or instruments and may at any time hold, or recommend to clients that they acquire, long and/or short positions in such securities and instruments.

Disclaimers About Non-U.S. Jurisdictions

Australia

This prospectus supplement is not a disclosure document for the purposes of Australia's Corporations Act 2001 (Cth) of Australia, or Corporations Act, has not been lodged with the Australian Securities & Investments Commission and is only directed to the categories of exempt persons set out below. Accordingly, if you receive this prospectus supplement in Australia:

A. You confirm and warrant that you are either:

a sophisticated investor under section 708(8)(a) or (b) of the Corporations Act;

a sophisticated investor under section 708(8)(c) or (d) of the Corporations Act and that you have provided an accountant's certificate to the company which complies with the requirements of section 708(8)(c)(i) or (ii) of the Corporations Act and related regulations before the offer has been made;

a person associated with the Company under Section 708(12) of the Corporations Act; or

a professional investor within the meaning of section 708(11)(a) or (b) of the Corporations Act.

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To the extent that you are unable to confirm or warrant that you are an exempt sophisticated investor, associated person or professional investor under the Corporations Act, any offer made to you under this prospectus supplement is void and incapable of acceptance.

- B. You warrant and agree that you will not offer any of the securities issued to you pursuant to this prospectus supplement for resale in Australia within 12 months of those securities being issued unless any such resale offer is exempt from the requirement to issue a disclosure document under section 708 of the Corporations Act.

Canada

- A. *Resale Restrictions.* The distribution of the shares in Canada is being made only in the provinces of Ontario, Quebec, Alberta and British Columbia on a private placement basis exempt from the requirement that we prepare and file a prospectus with the securities regulatory authorities in each province where trades of these securities are made. Any resale of the shares in Canada must be made under applicable securities laws which may vary depending on the relevant jurisdiction, and which may require resales to be made under available statutory exemptions or under a discretionary exemption granted by the applicable Canadian securities regulatory authority. Purchasers are advised to seek legal advice prior to any resale of the securities.
- B. *Representations of Canadian Purchasers.* By purchasing shares in Canada and accepting delivery of a purchase confirmation, a purchaser is representing to and the dealer from whom the purchase confirmation is received that:

the purchaser is entitled under applicable provincial securities laws to purchase the shares of common stock without the benefit of a prospectus qualified under those securities laws as it is an accredited investor as defined under National Instrument 45-106 Prospectus Exemptions;

the purchaser is a permitted client as defined in National Instrument 31-103 Registration Requirements, Exemptions and Ongoing Registrant Obligations;

where required by law, the purchaser is purchasing as principal and not as agent; and

the purchaser has reviewed the text above under Resale Restrictions.

- C. *Conflicts of Interest.* Canadian purchasers are hereby notified that the underwriters are relying on the exemption set out in section 3A.3 or 3A.4, if applicable, of National Instrument 33-105 Underwriting Conflicts from having to provide certain conflict of interest disclosure in this document.

- D. *Statutory Rights of Action.* Securities legislation in certain provinces or territories of Canada may provide a purchaser with remedies for rescission or damages if the prospectus supplement (including any amendment thereto) such as this document contains a misrepresentation, provided that the remedies for rescission or damages are exercised by the purchaser within the time limit prescribed by the securities legislation of the purchaser's province or territory. The purchaser of these securities in Canada should refer to any applicable provisions of the securities legislation of the purchaser's province or territory for particulars of these rights or consult with a legal advisor.
- E. *Enforcement of Legal Rights.* All of our directors and officers as well as the experts named herein may be located outside of Canada and, as a result, it may not be possible for Canadian purchasers to effect service of process within Canada upon us or those persons. All or a substantial portion of our assets and the assets of those persons may be located outside of Canada and, as a result, it may not be possible to satisfy a judgment against us or those persons in Canada or to enforce a judgment obtained in Canadian courts against us or those persons outside of Canada.
- F. *Taxation and Eligibility for Investment.* Canadian purchasers of shares of common stock should consult their own legal and tax advisors with respect to the tax consequences of an investment in the company in their particular circumstances and about the eligibility of the shares of common stock for investment by the purchaser under relevant Canadian legislation.

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European Economic Area

In relation to each Member State of the European Economic Area (each, a Relevant Member State), no offer of shares of common stock may be made to the public in that Relevant Member State other than:

- (a) to any legal entity which is a qualified investor as defined in the Prospectus Directive;
- (b) to fewer than 100 or, if the Relevant Member State has implemented the relevant provision of the 2010 PD Amending Directive, 150 natural or legal persons (other than qualified investors as defined in the Prospectus Directive), as permitted under the Prospectus Directive, subject to obtaining the prior consent of the representative; or
- (c) in any other circumstances falling within Article 3(2) of the Prospectus Directive, provided that no such offer of shares shall require the Company or the representative to publish a prospectus pursuant to Article 3 of the Prospectus Directive or supplement a prospectus pursuant to Article 16 of the Prospectus Directive,

Each person in a Relevant Member State who initially acquires any shares or to whom any offer is made will be deemed to have represented, acknowledged and agreed to and with each of the representative and the Company that it is a qualified investor within the meaning of the law in that Relevant Member State implementing Article 2(1)(e) of the Prospectus Directive. In the case of any shares being offered to a financial intermediary as that term is used in Article 3(2) of the Prospectus Directive, each such financial intermediary will be deemed to have represented, acknowledged and agreed that the shares acquired by it in the offer have not been acquired on a non-discretionary basis on behalf of, nor have they been acquired with a view to their offer or resale to, persons in circumstances which may give rise to an offer of any shares to the public other than their offer or resale in a Relevant Member State to qualified investors as so defined or in circumstances in which the prior consent of the representative has been obtained to each such proposed offer or resale.

For the purposes of this provision, the expression an offer of shares to the public in relation to any shares in any Relevant Member State means the communication in any form and by any means of sufficient information on the terms of the offer and the shares to be offered so as to enable an investor to decide to purchase or subscribe the shares, as the same may be varied in the Relevant Member State by any measure implementing the Prospectus Directive in the Relevant Member State and the expression Prospectus Directive means Directive 2003/71/EC (as amended by Directive 2010/73/EU), and includes any relevant implementing measure in the Relevant Member State.

Hong Kong

No securities have been offered or sold, and no securities may be offered or sold, in Hong Kong, by means of any document, other than to persons whose ordinary business is to buy or sell securities, whether as principal or agent; or to professional investors as defined in the Securities and Futures Ordinance (Cap. 571) of Hong Kong, or the SFO, and any rules made under that Ordinance; or in other circumstances which do not result in the document being a prospectus as defined in the Companies Ordinance (Cap. 32) of Hong Kong, or the CO, or which do not constitute an offer or invitation to the public for the purpose of the CO or the SFO. No document, invitation or advertisement relating to the securities has been issued or may be issued or may be in

the possession of any person for the purpose of issue (in each case whether in Hong Kong or elsewhere), which is directed at, or the contents of which are likely to be accessed or read by, the public of Hong Kong (except if permitted under the securities laws of Hong Kong) other than with respect to securities which are or are intended to be disposed of only to persons outside Hong Kong or only to professional investors as defined in the SFO and any rules made under that Ordinance.

This prospectus supplement has not been registered with the Registrar of Companies in Hong Kong. Accordingly, this prospectus supplement may not be issued, circulated or distributed in Hong Kong, and the securities may not be offered for subscription to members of the public in Hong Kong. Each person acquiring the

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securities will be required, and is deemed by the acquisition of the securities, to confirm that he is aware of the restriction on offers of the securities described in this prospectus supplement and the relevant offering documents and that he is not acquiring, and has not been offered any securities in circumstances that contravene any such restrictions.

Israel

This document does not constitute a prospectus under the Israeli Securities Law, 5728-1968, or the Securities Law, and has not been filed with or approved by the Israel Securities Authority. In Israel, this prospectus is being distributed only to, and is directed only at, and any offer of the shares of common stock is directed only at, (i) a limited number of persons in accordance with the Israeli Securities Law and (ii) investors listed in the first addendum, or the Addendum, to the Israeli Securities Law, consisting primarily of joint investment in trust funds, provident funds, insurance companies, banks, portfolio managers, investment advisors, members of the Tel Aviv Stock Exchange, underwriters, venture capital funds, entities with equity in excess of NIS 50 million and qualified individuals, each as defined in the Addendum (as it may be amended from time to time), collectively referred to as qualified investors (in each case, purchasing for their own account or, where permitted under the Addendum, for the accounts of their clients who are investors listed in the Addendum). Qualified investors are required to submit written confirmation that they fall within the scope of the Addendum, are aware of the meaning of same and agree to it.

Japan

This offering has not been and will not be registered under the Financial Instruments and Exchange Law of Japan (Law No. 25 of 1948 of Japan, as amended), or FIEL, and the Initial Purchaser will not offer or sell any securities, directly or indirectly, in Japan or to, or for the benefit of, any resident of Japan (which term as used herein means any person resident in Japan, including any corporation or other entity organized under the laws of Japan), or to others for re-offering or resale, directly or indirectly, in Japan or to, or for the benefit of, any resident of Japan, except pursuant to an exemption from the registration requirements of, and otherwise in compliance with, the FIEL and any other applicable laws, regulations and ministerial guidelines of Japan.

Singapore

This prospectus supplement has not been and will not be lodged or registered as a prospectus with the Monetary Authority of Singapore. Accordingly, this prospectus supplement and any other document or material in connection with the offer or sale, or invitation for subscription or purchase, of the shares of common stock may not be circulated or distributed, nor may the shares of common stock be offered or sold, or be made the subject of an invitation for subscription or purchase, whether directly or indirectly, to persons in Singapore other than (i) to an institutional investor under Section 274 of the Securities and Futures Act, Chapter 289 of Singapore, or the SFA, (ii) to a relevant person pursuant to Section 275(1), or any person pursuant to Section 275(1A), and in accordance with the conditions specified in Section 275, of the SFA, or (iii) otherwise pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA.

Where the shares of common stock are subscribed or purchased under Section 275 of the SFA by a relevant person which is:

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- (a) a corporation (which is not an accredited investor (as defined in Section 4A of the SFA)) the sole business of which is to hold investments and the entire share capital of which is owned by one or more individuals, each of whom is an accredited investor; or
- (b) a trust (where the trustee is not an accredited investor) whose sole purpose is to hold investments and each beneficiary of the trust is an individual who is an accredited investor, securities (as defined in Section 239(1) of the SFA) of that corporation or the beneficiaries' rights and interest (howsoever

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described) in that trust shall not be transferred within six months after that corporation or that trust has acquired the securities pursuant to an offer made under Section 275 of the SFA except:

- (i) to an institutional investor or to a relevant person defined in Section 275(2) of the SFA, or to any person arising from an offer referred to in Section 275(1A) or Section 276(4)(i)(B) of the SFA;
- (ii) where no consideration is or will be given for the transfer;
- (iii) where the transfer is by operation of law;
- (iv) as specified in Section 276(7) of the SFA; or
- (v) as specified in Regulation 32 of the Securities and Futures (Offers of Investments) (Shares and Debentures) Regulations 2005 of Singapore.

Switzerland

The securities may not be publicly offered in Switzerland and will not be listed on the SIX Swiss Exchange, or the SIX, or on any other stock exchange or regulated trading facility in Switzerland. This prospectus supplement has been prepared without regard to the disclosure standards for issuance prospectuses under art. 652a or art. 1156 of the Swiss Code of Obligations or the disclosure standards for listing prospectuses under art. 27 ff. of the SIX Listing Rules or the listing rules of any other stock exchange or regulated trading facility in Switzerland. Neither this prospectus supplement nor any other offering or marketing material relating to the securities or this offering may be publicly distributed or otherwise made publicly available in Switzerland.

Neither this prospectus supplement nor any other offering or marketing material relating to this offering, the company or the securities have been or will be filed with or approved by any Swiss regulatory authority. In particular, this prospectus supplement will not be filed with, and the offer of securities will not be supervised by, the Swiss Financial Market Supervisory Authority FINMA, and the offer of securities has not been and will not be authorized under the Swiss Federal Act on Collective Investment Schemes, or the CISA. The investor protection afforded to acquirers of interests in collective investment schemes under the CISA does not extend to acquirers of securities.

United Kingdom

This prospectus supplement is only being distributed to, and is only directed at, persons in the United Kingdom that are qualified investors within the meaning of Article 2(1)(e) of the Prospectus Directive that are also (i) investment professionals falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005, as amended, or the Order, and/or (ii) high net worth entities falling within Article 49(2)(a) to (d) of the Order and other persons to whom it may lawfully be communicated (each such person being referred to as a relevant person).

This prospectus supplement and its contents are confidential and should not be distributed, published or reproduced (in whole or in part) or disclosed by recipients to any other persons in the United Kingdom. Any

person in the United Kingdom that is not a relevant person should not act or rely on this document or any of its contents.

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LEGAL MATTERS

The validity of the securities offered by this prospectus supplement will be passed upon for us by Paul Hastings LLP, Palo Alto, California. Certain legal matters will be passed upon for the underwriters by Latham & Watkins LLP, San Diego, California.

EXPERTS

Ernst & Young LLP, independent registered public accounting firm, has audited our consolidated financial statements included in our Annual Report on Form 10-K for the year ended December 31, 2017, as set forth in their report, which is incorporated by reference in this prospectus supplement and elsewhere in the registration statement of which this prospectus supplement is a part. Our financial statements are incorporated by reference in reliance on Ernst & Young LLP's report, given on their authority as experts in accounting and auditing.

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INFORMATION INCORPORATED BY REFERENCE; WHERE YOU CAN FIND MORE INFORMATION

The SEC allows us to incorporate by reference the information and reports we file with it, which means that we can disclose important information to you by referring you to these documents. The information incorporated by reference is an important part of this prospectus supplement. We are incorporating by reference the documents listed below, which we have already filed with the SEC:

our Annual Report on Form 10-K for the fiscal year ended December 31, 2017, filed with the SEC on March 22, 2018;

our Quarterly Report on Form 10-Q for the quarter ended March 31, 2018, filed with the SEC on May 10, 2018;

our Quarterly Report on Form 10-Q for the quarter ended June 30, 2018, filed with the SEC on August 9, 2018;

our Amendment No. 1 to Quarterly Report on Form 10-Q/A for the quarter ended June 30, 2018, filed with the SEC on October 9, 2018;

our Quarterly Report on Form 10-Q for the quarter ended September 30, 2018, filed with the SEC on November 8, 2018;

our Definitive Proxy Statement on Schedule 14A filed with the SEC on April 30, 2018;

our Current Reports on Form 8-K filed with the SEC on March 1, 2018, April 16, 2018, April 18, 2018, May 8, 2018, June 26, 2018, June 28, 2018, August 6, 2018 and August 31, 2018; and

the description of our common stock set forth in our Registration Statement on Form 8-A (File No. 001-36536), filed with the SEC on July 11, 2014, including any amendments or reports filed for the purpose of updating such description.

All documents we file pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act on or after the date of this prospectus supplement and before the later of (1) the completion of the offering of the securities described in this prospectus supplement and (2) if applicable, the date any underwriter stops offering securities pursuant to this prospectus supplement will also be incorporated by reference in this prospectus supplement from the date of filing of such documents. Upon request, we will provide to each person, including any beneficial owner, to whom a prospectus supplement is delivered a copy of any or all of the information that has been incorporated by reference in this prospectus supplement but not delivered with this prospectus supplement.

Notwithstanding the preceding, unless specifically stated to the contrary, none of the information that we disclose under 2.02 or 7.01 or, if related to Items 2.02 or 7.01, Item 9.01 of any Current Report on Form 8-K that we may, from time to time, furnish to the SEC will be incorporated by reference into, or otherwise included in, this prospectus supplement. The information contained in each of the documents incorporated by reference speaks only as of the date of such document. Any statement contained in a document incorporated by reference or deemed to be incorporated by reference herein, or contained in this prospectus supplement, shall be deemed to be modified or superseded for purposes of this prospectus supplement to the extent that a statement contained herein or in any subsequently filed document or report that also is incorporated by reference or is deemed to be incorporated by reference herein modifies or supersedes such statement. Any such statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this prospectus supplement.

We file annual, quarterly and other reports, proxy statements and other information with the SEC. Our SEC filings are available to the public over the Internet at the SEC's website at <http://www.sec.gov>. Our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, and Current Reports on Form 8-K, including any amendments to those reports, and other information that we file with or furnish to the SEC pursuant to

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Section 13(a) or 15(d) of the Exchange Act can also be accessed free of charge through the Internet. These filings will be available as soon as reasonably practicable after we electronically file such material with, or furnish it to, the SEC.

We have filed with the SEC a registration statement under the Securities Act relating to the offering of these securities. The registration statement, including the attached exhibits, contains additional relevant information about us and the securities. This prospectus supplement does not contain all of the information set forth in the registration statement. You can obtain a copy of the registration statement, at prescribed rates, from the SEC at the address listed above. The registration statement and the documents referred to above are also available on our corporate website at www.caredx.com under the heading "Investors". Unless specifically listed above, the information contained on the SEC website or our website is not incorporated by reference into this prospectus supplement and you should not consider that information a part of this prospectus supplement. You may obtain a copy of any of these documents at no cost, by writing or telephoning us at the following address:

CareDx, Inc.

3260 Bayshore Boulevard

Brisbane, CA 94005

Attn: Investor Relations

Telephone: (415) 287-2300

This prospectus supplement may contain information that updates, modifies or is contrary to information in one or more of the documents incorporated by reference in this prospectus supplement. You should rely only on the information incorporated by reference or provided in this prospectus supplement. We have not authorized anyone else to provide you with different information. You should not assume that the information in this prospectus supplement is accurate as of any date other than the date of this prospectus supplement or the date of the documents incorporated by reference in this prospectus supplement.

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PROSPECTUS

CareDx, Inc.

\$200,000,000

Common Stock

Preferred Stock

Debt Securities

Warrants

Units

We may offer and sell, from time to time in one or more offerings, up to \$200,000,000 in the aggregate of any combination of the securities identified above from time to time in one or more offerings, either individually or in combination with other securities. We may also offer common stock or preferred stock upon conversion of debt securities, common stock upon conversion of preferred stock, or common stock, preferred stock or debt securities upon the exercise of warrants.

Each time we offer and sell securities, we will provide a supplement to this prospectus that contains specific information about the offering and the amounts, prices and terms of the securities. We may also authorize one or more free writing prospectuses to be provided to you in connection with these offerings. The prospectus supplement and any related free writing prospectuses may also add, update or change information contained in this prospectus with respect to that offering. You should carefully read this prospectus and the applicable prospectus supplement and any related free writing prospectus, as well as any documents incorporated by reference, before you invest in any of our securities.

We may offer and sell the securities described in this prospectus and any prospectus supplement to or through one or more underwriters, dealers and agents, or directly to purchasers, or through a combination of these methods. If any underwriters, dealers or agents are involved in the sale of any of the securities, their names and any applicable purchase price, fee, commission or discount arrangement between or among them will be set forth, or will be calculable from the information set forth, in the applicable prospectus supplement. See the sections of this prospectus entitled [About this Prospectus](#) and [Plan of Distribution](#) for more information. No securities may be sold without delivery of this prospectus and the applicable prospectus supplement describing the method and terms of the offering of such securities.

Investing in our securities involves a high degree of risk. You should review carefully the risks and uncertainties described under the heading Risk Factors on page 6 of this prospectus, the applicable prospectus supplement and in any applicable free writing prospectuses, and under similar headings in the documents that are incorporated by reference into this prospectus.

Our common stock is currently listed on the Nasdaq Global Market under the symbol CDNA . On August 29, 2018, the last reported sales price for our common stock was \$22.80 per share. The applicable prospectus supplement will contain information, where applicable, as to any other listing on the Nasdaq Global Market or any securities market or other exchange of the securities, if any, covered by the applicable prospectus supplement.

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

The date of this prospectus is October 11, 2018.

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ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement on Form S-3 that we filed with the Securities and Exchange Commission, or the SEC, utilizing a shelf registration process. Under this shelf registration process, we may offer and sell shares of our common stock and preferred stock, various series of debt securities, warrants to purchase any of such securities and/or units consisting of any combination of such securities, either individually or in combination with other securities, in one or more offerings, up to a total dollar amount of \$200,000,000. This prospectus provides you with a general description of the securities we may offer.

Each time we offer securities under this prospectus, we will provide a prospectus supplement that will contain more specific information about the terms of that offering. We may also authorize one or more free writing prospectuses to be provided to you that may contain material information relating to these offerings. The prospectus supplement and any related free writing prospectus we have authorized for use in connection with a specific offering may also add, update or change any of the information contained in this prospectus or in the documents that we have incorporated by reference into this prospectus. We urge you to read carefully this prospectus, the applicable prospectus supplement and any free writing prospectuses we have authorized for use in connection with a specific offering, together with the information incorporated herein by reference as described under the section entitled **Important Information Incorporated by Reference**, before buying any of the securities being offered.

THIS PROSPECTUS MAY NOT BE USED TO CONSUMMATE A SALE OF SECURITIES UNLESS IT IS ACCOMPANIED BY A PROSPECTUS SUPPLEMENT.

You should rely only on the information contained in, or incorporated by reference into, this prospectus, the applicable prospectus supplement and any free writing prospectuses, along with the information contained in any free writing prospectuses we have authorized for use in connection with a specific offering. We have not authorized anyone to provide you with different or additional information. This prospectus is an offer to sell only the securities offered hereby, but only under circumstances and in jurisdictions where it is lawful to do so.

The information appearing in this prospectus, the applicable prospectus supplement or any related free writing prospectus is accurate only as of the date on the front of the document and any information we have incorporated by reference is accurate only as of the date of the document incorporated by reference, regardless of the time of delivery of this prospectus, the applicable prospectus supplement or any related free writing prospectus, or any sale of a security. Our business, financial condition, results of operations and prospects may have changed since those dates.

This prospectus contains summaries of certain provisions contained in some of the documents described herein, but reference is made to the actual documents for complete information. All of the summaries are qualified in their entirety by the actual documents. Copies of some of the documents referred to herein have been filed, will be filed or will be incorporated by reference as exhibits to the registration statement of which this prospectus is a part, and you may obtain copies of those documents as described below under the heading **Where You Can Find More Information**.

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SUMMARY

This summary highlights selected information that is presented in greater detail elsewhere in this prospectus or incorporated by reference in this prospectus. Because it is only a summary, it does not contain all of the information you should consider before investing in our common stock, preferred stock, debt securities, warrants or units, and it is qualified in its entirety by, and should be read in conjunction with, the more detailed information included elsewhere in this prospectus. Before you decide whether to purchase shares of our common stock or preferred stock, or our debt securities, warrants or units, you should read this entire prospectus, the applicable prospectus supplement and any related free-writing prospectus carefully, including the risks of investing in our securities discussed under the heading "Risk Factors" contained in the applicable prospectus supplement and any related free writing prospectus, and under similar headings in the other documents that are incorporated by reference into this prospectus. You should also carefully read the information incorporated by reference into this prospectus, including our financial statements, and the exhibits to the registration statement of which this prospectus is a part. Unless the context otherwise requires, the terms CareDx, the Company, we, us and our in this prospectus refer to CareDx, Inc. and its subsidiaries.

The Company

We are a global transplant diagnostics company with product and service offerings along the pre- and post-transplant continuum. We focus on discovery, development and commercialization of clinically differentiated, high-value diagnostic surveillance solutions for transplant patients.

Testing Services

AlloMap

Our first commercialized testing solution, the AlloMap heart transplant molecular test, or AlloMap, is a gene expression test that helps clinicians monitor and identify heart transplant recipients with stable graft function who have a low probability of moderate-to-severe acute cellular rejection. Since 2005, we have sought to expand the adoption and utilization of our AlloMap solution through ongoing studies to substantiate the clinical utility and actionability of AlloMap, secure positive reimbursement decisions for AlloMap from large private and public payers, develop and enhance our relationships with key members of the transplant community, including opinion leaders at major transplant centers, and explore opportunities and technologies for the development of additional solutions for post-transplant surveillance. We believe the use of AlloMap, in conjunction with other clinical indicators, can help healthcare providers and their patients better manage long-term care following a heart transplant. In particular, we believe AlloMap can improve patient care by helping healthcare providers avoid the use of unnecessary, invasive surveillance biopsies and determine the appropriate dosage levels of immunosuppressants. In 2008, AlloMap received 510(k) clearance from the U.S. Food and Drug Administration, or FDA, for marketing and sale as a test to aid in the identification of recipients with a low probability of moderate or severe acute cellular rejection.

AlloMap has received positive coverage decisions for reimbursement from Medicare. The 2018 reimbursement rate for AlloMap is \$3,240, which represents a 14% increase over the 2017 reimbursement rate. AlloMap has also received positive coverage decisions for reimbursement from many of the largest U.S. private payers, including Aetna, Anthem, Cigna, Health Care Services Corporation (HCSC), Humana, Kaiser Foundation Health Plan, Inc., and TRICARE.

We have also successfully completed a number of landmark clinical trials in the transplant field demonstrating the clinical utility of AlloMap for surveillance of heart transplant recipients. We initially

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established the analytical and clinical validity of AlloMap on the basis of our Cardiac Allograft Rejection Gene Expression Observational (Deng, M. et al., *Am J Transplantation* 2006), or CARGO, study, which was published in the *American Journal of Transplantation*. A subsequent clinical utility trial, Invasive Monitoring Attenuation through Gene Expression (Pham MX et al., *N. Eng. J. Med.*, 2010), or IMAGE, published in *The New England Journal of Medicine*, demonstrated that clinical outcomes in recipients managed with AlloMap surveillance were equivalent (non-inferior) to outcomes in recipients managed with biopsies. The results of our clinical trials have also been presented at major medical society congresses.

During the first six months of 2018, there were 7,979 AlloMap patient test results provided to 128 of the approximately 135 heart transplant management centers in the United States.

AlloSure

AlloSure, our recently launched commercial transplant surveillance solution, applies proprietary next generation sequencing technology to measure donor-derived cell free DNA, or dd-cfDNA in the blood stream emanating from the donor kidney or heart. We believe AlloSure may help clinicians determine rejection-specific activity manifested as cell damage in the transplanted heart, kidney and other solid organs, irrespective of the type of organ transplanted. We also believe the use of AlloSure, in conjunction with other clinical indicators, can help healthcare providers and their patients better manage long-term care following a kidney transplant. In particular, we believe AlloSure can improve patient care by helping healthcare providers to reduce the use of invasive biopsies and determine the appropriate dosage levels of immunosuppressants. Effective October 9, 2017, AlloSure became available for commercial testing with Medicare coverage and reimbursement. The Medicare reimbursement rate for AlloSure is \$2,841. AlloSure has also received payment from private payers on a case-by-case basis, but no positive coverage decisions have been made.

Prior to the commercialization of AlloSure, we generated a strong body of clinical evidence. In late 2015, we announced the completion of analytical validation of AlloSure. A report describing the analytical validation of AlloSure including clinical validation detailing the quality, reality, and consistency of analytical results information for heart transplant appeared in the November 2016 issue of *The Journal of Molecular Diagnostics*.

The Circulating Donor-Derived Cell-Free DNA in Blood for Diagnosing Acute Rejection in Kidney Transplant Recipients, or DART, trial, sponsored by us, was conducted between April 2015 and January 2018. DART is a 14 center observational study of kidney transplant recipients where blood specimens are drawn periodically after transplant during follow up visits and also after treatment for acute rejection. By the time of completion of the first analysis, 384 patients were followed in DART for up to 24 months. The results demonstrated that increased levels of dd-cfDNA, determined by the AlloSure assay, discriminated active rejection of a kidney transplant more effectively than serum creatinine values. In collaboration with clinical investigators, we published these findings in the scientific peer-reviewed *Journal of the American Society of Nephrology* and the *Journal Applied Laboratory Medicine* in March 2017. A total of 2,109 patient visits had been accrued in DART by January 2018; we plan to analyze and report on additional findings from this dataset in 2018 and into the future.

In late 2017, we established the Kidney Allograft Outcomes AlloSure Registry, or K-OAR, study to develop further data on the clinical utility of AlloSure for surveillance of kidney transplant recipients. We will invite 35 centers to join K-OAR, and we anticipate staggered activation of these study centers throughout 2018. As of June 30, 2018, 27 centers have been initiated as K-OAR study sites.

During the first six months of 2018, there were 3,351 AlloSure patient test results provided. Since launch, AlloSure has been ordered by 76 kidney transplant centers in the United States.

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Products

We develop, manufacture, market and sell products that increase the chance of successful transplants by facilitating a better match between a donor and a recipient of stem cells and organs. Olerup SSP[®] is used to type Human Leukocyte Antigen, or HLA alleles, based on the sequence specific primer, or SSP technology. Olerup SBT[™] is a complete product range for sequence-based typing of HLA alleles. Olerup QTYPE[®] enables speed and precision in HLA typing at a low to intermediate resolution for samples that require a fast turn-around-time and uses real-time polymerase chain reaction, or PCR methodology. QTYPE received CE mark certification on April 10, 2018.

On May 4, 2018, we entered into a License and Commercialization Agreement with Illumina, Inc., or Illumina, which provides us with worldwide distribution, development and commercialization rights to Illumina's next generation sequencing product line for use in transplantation diagnostic testing. As a result, on June 1, 2018, we became the exclusive worldwide distributor of Illumina's TruSight HLA product line. In addition, we were granted the exclusive right to develop and commercialize other next generation sequencing product lines for use in the field of bone marrow and solid organ transplantation diagnostic testing.

Corporate Information

We were originally incorporated in Delaware in December 1998 under the name Hippocratic Engineering, Inc. In April 1999, we changed our name to BioCardia, Inc., and in June 2002, we changed our name to Expression Diagnostics, Inc. In July 2007, we changed our name to XDx, Inc. and in March 2014, we most recently changed our name to CareDx, Inc. Our principal executive offices are located at 3260 Bayshore Boulevard, Brisbane, California 94005 and our telephone number is (415) 287-2300.

For a complete description of our business, financial condition, results of operations and other important information, we refer you to our filings with the SEC that are incorporated by reference in this prospectus, including our Annual Report on Form 10-K for the year ended December 31, 2017, our Quarterly Report on Form 10-Q for the quarter ended March 31, 2018 and our Quarterly Report on Form 10-Q for the quarter ended June 30, 2018. For instructions on how to find copies of these documents, see the section of this prospectus entitled [Where You Can Find More Information](#).

Emerging Growth Company Status

We qualify as an emerging growth company, as that term is defined in the Jumpstart Our Business Startups Act of 2012, or the JOBS Act. For as long as we qualify as an emerging growth company, we may take advantage of certain exemptions from various reporting requirements that are applicable to other public companies that do not qualify as emerging growth companies, including, without limitation, not being required to comply with the auditor attestation requirements of Section 404(b) of the Sarbanes-Oxley Act of 2002, as amended, reduced disclosure obligations relating to executive compensation and exemptions from the requirements of holding advisory say-on-pay, say-when-on-pay and golden parachute executive compensation votes.

Under the JOBS Act, we will remain an emerging growth company until the earliest of:

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the last day of the fiscal year during which we have total annual gross revenues of \$1.07 billion (subject to adjustment for inflation) or more;

the last day of the fiscal year following the fifth anniversary of the completion of our initial public offering, or January 1, 2020;

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the date on which we have, during the previous three-year period, issued more than \$1.0 billion in non-convertible debt; and

the date on which we are deemed to be a large accelerated filer under the Securities Exchange Act of 1934, as amended, or the Exchange Act (i.e., the first day of the fiscal year after we have (1) more than \$700.0 million in outstanding common equity held by our non-affiliates, measured each year on the last day of our second fiscal quarter, and (2) been public for at least 12 months).

We have elected to take advantage of certain of the reduced disclosure obligations regarding executive compensation in this prospectus and may elect to take advantage of other reduced reporting requirements in future filings with the SEC. As a result, the information that we provide to our stockholders may be different than the information you receive from other public reporting companies.

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RISK FACTORS

Investing in any securities offered pursuant to this prospectus, the applicable prospectus supplement and any related free writing prospectus involves a high degree of risk. Before making an investment decision, you should carefully consider the risks described under **Risk Factors** in the applicable prospectus supplement, any related free writing prospectus and in our most recent Annual Report on Form 10-K, or any updates in our Quarterly Reports on Form 10-Q, together with all of the other information appearing in or incorporated by reference into this prospectus, the applicable prospectus supplement and any related free writing prospectus, before deciding whether to purchase any of the securities being offered. Our business, financial condition or results of operations could be materially adversely affected by any of these risks. The occurrence of any of these risks might cause you to lose all or part of your investment in the offered securities.

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DISCLOSURE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus, any accompanying prospectus supplement and the documents incorporated by reference in this prospectus contain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, or the Securities Act, and Section 21E of the Exchange Act, which statements involve substantial risks and uncertainties. Forward-looking statements generally relate to future events or our future financial or operating performance. In some cases, you can identify forward-looking statements because they contain words such as may, will, should, expects, plans, anticipates, could, intends, target, contemplates, believes, estimates, predicts, potential or continue or the negative of these words or other similar terms or expressions that concern our expectations, strategy, plans or intentions. Forward-looking statements contained in this prospectus and the documents incorporated by reference in this prospectus include, but are not limited to, statements about:

our ability to generate revenue from sales of AlloMap, AlloSure and future testing services, if any, and our ability to increase the commercial success of these testing services;

our ability to generate revenue from sales of Olerup SSP, Olerup SBT, Olerup QTYPE, TruSight HLA, and future products, if any, and our ability to increase the commercial success of these products;

our ability to generate revenue from the license and commercialization agreement with Illumina;

our plans and ability to develop and commercialize new solutions for the surveillance of heart, kidney, and other solid organ transplant recipients;

our plans and ability to continue updating our products, services and technology to maintain our leading position in the surveillance market for solid organ transplants;
our ability to obtain additional financing on terms favorable to us, or at all;

our ability to remain eligible to use Registration Statements on Form S-3 for capital-raising transactions;

our ability to obtain, maintain and expand reimbursement coverage from payers for AlloMap, AlloSure and other future testing services, if any;

the outcome or success of our clinical trial collaborations and registry studies;

our dependence on certain of our suppliers, service providers, and other distribution partners;

our compliance with federal, state and foreign regulatory requirements;

the favorable review of our testing services and product offerings, and our future solutions, if any, in peer-reviewed publications;

our ability to protect and enforce our intellectual property rights, our strategies regarding filing additional patent applications to strengthen our intellectual property rights, and our ability to defend against intellectual property claims that may be brought against us;

our anticipated cash needs and our anticipated uses of our funds, including our estimates regarding operating expenses and capital requirements;

our ability to meet our obligations under our equity financing agreements and debt agreements;

anticipated trends and challenges in our business and the markets in which we operate;

disruptions to our business, including disruptions at our laboratories and manufacturing facilities;

our ability to retain key members of our management team;

our ability to make successful acquisitions or investments and to manage the integration of such acquisitions or investments;

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our ability to successfully defend against or settle any litigation brought against us or other legal matters or disputes;

our ability to expand internationally; and

our ability to continue to comply with the requirements of being a public company.

These forward-looking statements are subject to a number of risks, uncertainties and assumptions, including those described in this prospectus, in Part I - Item 1A, *Risk Factors*, in our Annual Report on Form 10-K for the year ended December 31, 2017, as filed with the SEC on March 22, 2018, in our Quarterly Report on Form 10-Q for the quarter ended March 31, 2018, as filed with the SEC on May 10, 2018 and in our Quarterly Report on Form 10-Q for the quarter ended June 30, 2018, as filed with the SEC on August 9, 2018, the applicable prospectus supplement and any related free-writing prospectus and elsewhere in the documents incorporated by reference into this prospectus. Moreover, we operate in a very competitive and rapidly changing environment, and new risks emerge from time to time. It is not possible for us to predict all risks, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially and adversely from those contained in any forward-looking statements we may make. In light of these risks, uncertainties and assumptions, the forward-looking events and circumstances discussed in this report may not occur and actual results could differ materially and adversely from those anticipated or implied in the forward-looking statements. You should not rely upon forward-looking statements as predictions of future events. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee that the future results, levels of activity, performance or events and circumstances reflected in the forward-looking statements will be achieved or occur. Moreover, neither we nor any other person assumes responsibility for the accuracy and completeness of the forward-looking statements. Except as required by law, we undertake no obligation to update publicly any forward-looking statements for any reason after the date of this prospectus, the applicable prospectus supplement and any related free-writing prospectus to conform these statements to actual results or to changes in our expectations.

You should read this prospectus, the applicable prospectus supplement and any related free-writing prospectus and the documents incorporated by reference in this prospectus with the understanding that our actual future results, levels of activity, performance and events and circumstances may be materially different from what we expect. We qualify all forward-looking statements by these cautionary statements.

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USE OF PROCEEDS

Except as described in the applicable prospectus supplement or in any free writing prospectuses we have authorized for use in connection with a specific offering, we currently intend to use the net proceeds from the sale of securities under this prospectus, if any, for working capital and general corporate purposes, which may include, without limitation, supporting asset growth and engaging in acquisitions or other business combinations. We also may use a portion of the proceeds to repay debt.

The precise amount and timing of our use of the net proceeds from the sale of securities under this prospectus or any applicable prospectus supplement will depend upon a number of factors, such as the timing and progress of our research and development efforts, the timing and progress of any partnering and commercialization efforts, technological advances and the competitive environment for our products. As of the date of this prospectus, we cannot specify with certainty all of the particular uses for the net proceeds to us from the sale of securities under this prospectus or any applicable prospectus supplement. Accordingly, our management will have broad discretion in the timing and application of these proceeds. Pending application of the net proceeds as described above, we intend to temporarily invest the proceeds in short-term, interest-bearing instruments.

Table of Contents**RATIO OF EARNINGS TO FIXED CHARGES**

The following table sets forth the historical ratios of earnings to fixed charges for CareDx, Inc. for the periods indicated.

	Year Ended December 31,					Six Months Ended
	2013	2014	2015	2016	2017	June 30, 2018
Ratio of earnings to fixed charges ⁽¹⁾	N/A	N/A	N/A	N/A	N/A	N/A

(1) For the purpose of calculating such ratios, earnings consist of losses before income taxes plus fixed charges, which consist of interest expense, capitalized interest, amortization of debt discount and the portion of rental expense representative of interest expense. Earnings were inadequate to cover the fixed charges by approximately \$57,269,000, \$41,362,000, \$13,707,000, \$719,000 and \$3,542,000 for the years ended December 31, 2017, 2016, 2015, 2014 and 2013 and by approximately \$23,861,000 for the six months ended June 30, 2018.

As of the date of this prospectus, we have never declared or paid any preferred stock dividends, and consequently, our ratio of earnings to combined fixed charges and preferred share dividends and ratio of earnings to fixed charges are identical.

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DESCRIPTION OF CAPITAL STOCK

The following description summarizes the most important terms of our capital stock. Because it is only a summary of the provisions of our amended and restated certificate of incorporation and amended and restated bylaws, it does not contain all of the information that may be important to you. For a complete description of the matters set forth in this Description of Capital Stock, you should refer to our amended and restated certificate of incorporation, amended and restated bylaws and the agreements described under the heading Registration Rights below, each of which are incorporated by reference into the registration statement of which this prospectus is a part, and to the applicable provisions of Delaware law.

Authorized Capitalization

Our authorized capital stock consists of 100,000,000 shares of common stock with a \$0.001 par value per share, and 10,000,000 shares of preferred stock with a \$0.001 par value per share. Our board of directors may establish the rights and preferences of the preferred stock from time to time.

As of June 30, 2018, there were 35,975,493 shares of our common stock outstanding, held by approximately 136 stockholders of record, not including beneficial holders whose shares are held in names other than their own. There are no shares of preferred stock outstanding.

Listing

Our common stock is listed on the Nasdaq Global Market under the symbol CDNA.

Transfer Agent and Registrar

The transfer agent and registrar for the common stock is Computershare Trust Company, N.A. Its address is 250 Royall Street, Canton, MA 02021, and its telephone number is 1-800-962-4284.

Common Stock

Each holder of our common stock is entitled to one vote for each share on all matters to be voted upon by the stockholders. Subject to any preferential rights of any outstanding preferred stock, holders of our common stock are entitled to receive ratably the dividends, if any, as may be declared from time to time by the board of directors out of funds legally available therefor. We have never declared or paid any cash dividend on our capital stock and do not anticipate paying any cash dividends in the foreseeable future. Our credit agreement with Perceptive Credit Holdings II, LP., or Perceptive, as a lender and administrative agent for the several banks and other financial institutions or entities from time to time party thereto, restricts our ability to pay cash dividends on our common stock, and we may also enter into credit agreements or other borrowing arrangements in the future that will further restrict our ability to declare or pay cash dividends on our common stock. In the event of our liquidation, dissolution or winding up, holders of our common stock are entitled to share ratably in our assets remaining after the payment of liabilities and any preferential rights of any outstanding preferred stock.

Holders of our common stock have no preemptive or conversion rights or other subscription rights, and there are no redemption or sinking fund provisions applicable to the common stock. The outstanding shares of common stock are fully paid and non-assessable. The rights, preferences and privileges of the holders of our common stock are subject to, and may be adversely affected by, the rights of the holders of shares of any

series of preferred stock that we may designate and issue in the future.

Voting Rights

Each share of our common stock entitles its holder to one vote in the election of each director. No share of our common stock affords any cumulative voting rights. This means that the holders of a majority of the voting

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power of the shares voting for the election of directors can elect all directors to be elected if they choose to do so, subject to any voting rights granted to holders of any outstanding preferred stock. Generally, except as discussed under the heading "Effect of Certain Provisions of our Amended and Restated Certificate of Incorporation and Amended and Restated Bylaws and the Delaware Anti-Takeover Statute" below, all matters to be voted on by stockholders must be approved by a majority of the total voting power of the common stock present in person or represented by proxy at a meeting at which a quorum exists, subject to any voting rights granted to holders of any outstanding preferred stock. Except as otherwise provided by law or in the amended and restated certificate of incorporation (as further discussed under the heading "Effect of Certain Provisions of our Amended and Restated Certificate of Incorporation and Amended and Restated Bylaws and the Delaware Anti-Takeover Statute" below), and subject to any voting rights granted to holders of any outstanding preferred stock, amendments to the amended and restated certificate of incorporation must be approved by a majority of the votes entitled to be cast by the holders of common stock.

Dividends

Subject to the rights of holders of any outstanding preferred stock, holders of our common stock are entitled to dividends in such amounts and at such times as our board of directors in its discretion may declare out of funds legally available for the payment of dividends. Dividends on our common stock will be paid at the discretion of our board of directors after taking into account various factors, including:

our financial condition;

our results of operations;

our capital requirements and development expenditures;

our future business prospects; and

any restrictions imposed by future debt instruments.

Other Rights

On our liquidation, dissolution or winding up, after payment in full of the amounts required to be paid to holders of any outstanding preferred stock, all holders of common stock are entitled to receive the same amount per share with respect to any distribution of assets to holders of shares of common stock.

No shares of common stock are subject to redemption or have preemptive rights to purchase additional shares of our common stock or other securities.

Preferred Stock

Our board of directors is authorized, subject to limitations prescribed by Delaware law, to issue up to 10,000,000 shares of our preferred stock in one or more series, to establish from time to time the number of

shares to be included in each series, and to fix the designation, powers, preferences, and rights of the shares of each series and any of its qualifications, limitations or restrictions, in each case without further vote or action by our stockholders. Our board of directors can also increase or decrease the number of shares of any series of preferred stock, but not below the number of shares of that series then outstanding, without any further vote or action by our stockholders. Our board of directors may authorize the issuance of preferred stock with voting or conversion rights that could adversely affect the voting power or other rights of the holders of our common stock. The issuance of preferred stock, while providing flexibility in connection with possible acquisitions and other corporate purposes, could, among other things, have the effect of delaying, deferring or preventing a change in control of our company and might adversely affect the market price of our common stock and the voting and other rights of the holders of our common stock.

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Equity Awards

As of June 30, 2018, options to purchase 2,561,458 shares of our common stock with a weighted-average exercise price of \$6.57 per share were outstanding and restricted stock units with respect to 896,904 shares of our common stock, with a weighted-average grant date fair value of \$8.83 per share, were outstanding.

Warrants

As of June 30, 2018, warrants to purchase an aggregate of 3,328,089 shares of common stock with a weighted-average exercise price of \$5.08 per share were outstanding. All outstanding warrants are currently exercisable, except to the extent that they may include a blocker provision, which restricts the exercise of a warrant if, as a result of such exercise, the warrant holder, together with its affiliates and any other person whose beneficial ownership of common stock would be aggregated with the warrant holder's for purposes of Section 13(d) of the Exchange Act, would beneficially own in excess of 4.9% or 9.9% of our then issued and outstanding shares of common stock (including the shares of common stock issuable upon such exercise), as such percentage ownership is determined in accordance with the terms of such warrant, and contain provisions for the adjustment of the exercise price in the event of stock dividends, stock splits or similar transactions or, in certain cases, dilutive issuances.

Registration Rights

On July 3, 2017, we entered into a registration rights agreement, as amended, pursuant to which we agreed, among other things, that we would file with the SEC a Registration Statement under the Securities Act that covers the resale of the shares issued and issuable pursuant to the Third Amendments to Conditional Share Purchase Agreements and Conversion Agreements, dated July 1, 2017 that we entered into with each of Midroc Invest AB, FastPartner AB and Xenella Holding AB. We filed such registration statement on August 25, 2017, as amended on December 1, 2017, and the registration statement was declared effective on December 8, 2017.

On March 15, 2017, we entered into a registration rights agreement with certain accredited investors in connection with the sale of the senior secured debentures and warrants to purchase 1,250,000 shares of common stock, pursuant to which we agreed, among other things, that we would file with the SEC a Registration Statement under the Securities Act that covers the resale of (i) the shares of common stock issuable upon conversion or redemption of the senior secured debentures and (ii) the shares of common stock issuable upon exercise of the warrants. We filed such registration statement on April 26, 2017, and the registration statement was declared effective on May 11, 2017. Pursuant to the anti-dilution adjustments in the warrants issued on March 15, 2017, the number of shares subject to the warrants was adjusted on July 3, 2017 and again on October 10, 2017. The warrants are currently exercisable for an aggregate of 1,338,326 shares of common stock. As of March 27, 2018, all of the senior secured debentures were fully converted into shares of our common stock.

On June 15, 2016, we entered into a securities purchase agreement, or the June SPA, with certain accredited investors in connection with the sale and issuance of an additional approximately \$8.0 million worth of Units. The June SPA also provided that we file with the SEC, by no later than August 1, 2016, a Registration Statement under the Securities Act that covers the resale of (i) the shares of common stock, (ii) the shares of common stock into which the Series A Preferred is convertible and (iii) the shares of common stock issuable upon exercise of the warrants, in each case as issued pursuant to the June SPA. On June 16, 2016, each share of Series A Preferred was converted into one share of the common stock. We filed a Registration Statement

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registering the shares of common stock issued and issuable pursuant to the April SPA and the June SPA for resale on May 27, 2016, as amended on June 15, 2016, June 30, 2016 and August 25, 2017, and the Registration Statement was most recently declared effective on September 8, 2017.

On April 12, 2016, we entered into a securities purchase agreement, or the April SPA with certain accredited investors in connection with the sale and issuance of approximately \$14.2 million worth of units, or

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Units, each Unit comprised of: (i) one share of common stock, (ii) five shares of our Series A Mandatorily Convertible Preferred Stock, par value \$0.001 per share, or the Series A Preferred, and (iii) three warrants, each to purchase one share of common stock upon exercise of such warrants. The April SPA also provided that we file with the SEC, by no later than May 30, 2016, a Registration Statement under the Securities Act that covers the resale of (A) the shares of common stock, (B) the shares of common stock into which the Series A Preferred is convertible, and (C) the shares of common stock issuable upon exercise of the warrants, in each case as issued pursuant to the April SPA.

Effect of Certain Provisions of our Amended and Restated Certificate of Incorporation and Amended and Restated Bylaws and the Delaware Anti-Takeover Statute

Certain provisions of Delaware law, along with certain provisions of our amended and restated certificate of incorporation and our amended and restated bylaws, may have the effect of delaying, deferring or discouraging another person from acquiring control of our company and could make the following transactions more difficult:

acquisition of us by means of a tender offer;

acquisition of us by means of a proxy contest or otherwise; or

removal of our incumbent officers and directors.

These provisions, summarized below, are expected to discourage coercive takeover practices and inadequate takeover bids and to promote stability in our management. These provisions are also designed, in part, to encourage persons seeking to acquire control of our company to first negotiate with our board of directors. However, these provisions could have the effect of deferring hostile takeovers or delaying, discouraging or preventing attempts to acquire us, which could deprive our stockholders of opportunities to sell their shares of common stock at prices higher than prevailing market prices.

Amended and Restated Certificate of Incorporation and Amended and Restated Bylaws

Our amended and restated certificate of incorporation and our amended and restated bylaws include a number of provisions that could deter hostile takeovers or delay or prevent changes relating to the control of our board of directors or management team, including the following:

Board of Directors Vacancies. Our amended and restated certificate of incorporation and amended and restated bylaws authorize only our board of directors to fill vacant directorships, including newly created seats. In addition, the number of directors constituting our board of directors can be set only by a resolution adopted by a majority vote of our entire board of directors. These provisions would prevent a stockholder from increasing the size of our board of directors and then gaining control of our board of directors by filling the resulting vacancies with its own nominees. This makes it more difficult to change the composition of our board of directors and promotes continuity of management.

Classified Board. Our amended and restated certificate of incorporation provides that our board of directors is classified into three classes of directors. A third party may be discouraged from making a tender offer or otherwise attempting to obtain control of our company as it is more difficult and time consuming for stockholders to replace a majority of the directors on a classified board of directors.

Stockholder Action; Special Meeting of Stockholders. Our amended and restated certificate of incorporation provides that our stockholders may not take action by written consent, but may only take action at annual or special meetings of our stockholders. As a result, a holder controlling a majority of our capital stock would not be able to amend our amended and restated bylaws or remove directors without holding a meeting of our stockholders called in accordance with our amended and restated bylaws. Our amended and restated bylaws further provide that special meetings of our stockholders may be called only by a majority of our board of directors, the Chairperson of our board of directors, our Chief Executive Officer or our President, thus prohibiting a stockholder (in the capacity as a

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stockholder) from calling a special meeting. These provisions might delay the ability of our stockholders to force consideration of a proposal or for stockholders controlling a majority of our capital stock to take any action, including the removal of directors.

Advance Notice Requirements for Stockholder Proposals and Director Nominations. Our amended and restated bylaws provide advance notice procedures for stockholders seeking to bring business before our annual meeting of stockholders or to nominate candidates for election as directors at our annual meeting of stockholders. Our amended and restated bylaws also specify certain requirements regarding the form and content of a stockholder's notice. These provisions might preclude our stockholders from bringing matters before our annual meeting of stockholders or from making nominations for directors at our annual meeting of stockholders if the proper procedures are not followed. We expect that these provisions may also discourage or deter a potential acquirer from conducting a solicitation of proxies to elect the acquirer's own slate of directors or otherwise attempting to obtain control of our company.

No Cumulative Voting. The General Corporation Law of the State of Delaware, or the DGCL, provides that stockholders may cumulate votes in the election of directors if the corporation's certificate of incorporation allows for such mechanism. Our amended and restated certificate of incorporation does not provide for cumulative voting.

Directors Removed Only for Cause. Our amended and restated certificate of incorporation provides that stockholders may remove directors only for cause and only by the affirmative vote of the holders of at least 66 2/3% in voting power of our stock entitled to vote thereon.

Amendment of Charter Provisions. Any amendment of the above provisions in our amended and restated certificate of incorporation, with the exception of the ability of our board of directors to issue shares of preferred stock and designate any rights, preferences and privileges thereto, would require approval by the affirmative vote of the holders of at least 66 2/3% of our then outstanding common stock.

Issuance of Undesignated Preferred Stock. Our board of directors has the authority, without further action by the stockholders, to issue up to 10,000,000 shares of undesignated preferred stock with rights and preferences, including voting rights, designated from time to time by our board of directors. The existence of authorized but unissued shares of preferred stock would enable our board of directors to render more difficult or to discourage an attempt to obtain control of our company by means of a merger, tender offer, proxy contest or other means.

Delaware Anti-Takeover Statute

We are subject to the provisions of Section 203 of the DGCL regulating corporate takeovers. In general, those provisions prohibit a public Delaware corporation from engaging in any business combination with any interested stockholder for a period of three years following the date that the stockholder became an interested stockholder, unless:

the transaction is approved by the board of directors before the date the interested stockholder attained that status;

upon consummation of the transaction which resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction commenced; or

on or after the date of the transaction, the transaction is approved by the board of directors and authorized at a meeting of stockholders, and not by written consent, by the affirmative vote of at least 66 2/3% of the outstanding voting stock that is not owned by the interested stockholder.

In general, Section 203 of the DGCL defines a business combination to include the following:

any merger or consolidation involving the corporation and the interested stockholder;

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any sale, transfer, pledge or other disposition of 10% or more of the assets of the corporation involving the interested stockholder;

subject to certain exceptions, any transaction that results in the issuance or transfer by the corporation of any stock of the corporation to the interested stockholder;

any transaction involving the corporation that has the effect of increasing the proportionate share of the stock of any class or series of the corporation beneficially owned by the interested stockholder; or

the receipt by the interested stockholder of the benefit of any loans, advances, guarantees, pledges or other financial benefits provided by or through the corporation.

In general, Section 203 of the DGCL defines an interested stockholder as any entity or person beneficially owning, or who within three years prior to the time of determination of interested stockholder status did own, 15% or more of the outstanding voting stock of the corporation and any entity or person affiliated with or controlling or controlled by any such entity or person.

A Delaware corporation may opt out of this provision by express provision in its original certificate of incorporation or by amendment to its certificate of incorporation or bylaws approved by its stockholders. However, we have not opted out of, and do not currently intend to opt out of, this provision. The statute could prohibit or delay mergers or other takeover or change in control attempts and, accordingly, may discourage attempts to acquire our company.

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DESCRIPTION OF DEBT SECURITIES

We may issue debt securities from time to time, in one or more series, as either senior or subordinated debt or as senior or subordinated convertible debt. While the terms we have summarized below will apply generally to any debt securities that we may offer under this prospectus, we will describe the particular terms of any debt securities that we may offer in more detail in the applicable prospectus supplement. The terms of any debt securities offered under a prospectus supplement may differ from the terms described below. Unless the context requires otherwise, whenever we refer to the indenture, we also are referring to any supplemental indentures that specify the terms of a particular series of debt securities.

We will issue the debt securities under the indenture that we will enter into with the trustee named in the indenture. The indenture will be qualified under the Trust Indenture Act of 1939, as amended, or the Trust Indenture Act. We have filed the form of indenture as an exhibit to the registration statement of which this prospectus is a part, and supplemental indentures and forms of debt securities containing the terms of the debt securities being offered will be filed as exhibits to the registration statement of which this prospectus is a part or will be incorporated by reference from reports that we file with the SEC.

The following summary of material provisions of the debt securities and the indenture is subject to, and qualified in its entirety by reference to, all of the provisions of the indenture applicable to a particular series of debt securities. We urge you to read the applicable prospectus supplements and any related free writing prospectuses we authorize for use in connection with a specific offering of debt securities, as well as the complete indenture that contains the terms of the debt securities.

General Matters

The indenture does not limit the amount of debt securities that we may issue. It provides that we may issue debt securities up to the principal amount that we may authorize and in any currency or currency unit that we may designate. Except for the limitations on consolidation, merger and sale of all or substantially all of our assets contained in the indenture, the terms of the indenture do not contain any covenants or other provisions designed to give holders of any debt securities protection against changes in our operations or financial condition or transactions involving us.

We may issue the debt securities issued under the indenture as discount securities, which means they may be sold at a discount below their stated principal amount. These debt securities, as well as other debt securities that are not issued at a discount, may be issued with original issue discount, or OID, for U.S. federal income tax purposes because of interest payment and other characteristics or terms of the debt securities. Material U.S. federal income tax considerations applicable to debt securities issued with OID will be described in more detail in the applicable prospectus supplement.

We will describe in the applicable prospectus supplement the terms of the series of debt securities being offered, including:

the title of the series of debt securities;

any limit upon the aggregate principal amount that may be issued;

the maturity date or dates;

the form of the debt securities of the series;

the applicability of any guarantees;

whether or not the debt securities will be secured or unsecured, and the terms of any secured debt;

whether the debt securities rank as senior debt, senior subordinated debt, subordinated debt or any combination thereof, and the terms of any subordination;

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if the price (expressed as a percentage of the aggregate principal amount thereof) at which the debt securities will be issued is a price other than the principal amount thereof, the portion of the principal amount thereof payable upon declaration of acceleration of the maturity thereof, or if applicable, the portion of the principal amount of such debt securities that is convertible into another security or the method by which any such portion shall be determined;

the interest rate or rates, which may be fixed or variable, or the method for determining the rate and the date interest will begin to accrue, the dates interest will be payable and the regular record dates for interest payment dates or the method for determining such dates;

our right, if any, to defer payment of interest and the maximum length of any such deferral period;

if applicable, the date or dates after which, or the period or periods during which, and the price or prices at which, we may, at our option, redeem the series of debt securities pursuant to any optional or provisional redemption provisions and the terms of those redemption provisions;

the date or dates, if any, on which, and the price or prices at which we are obligated, pursuant to any mandatory sinking fund or analogous fund provisions or otherwise, to redeem, or at the holder's option to purchase, the series of debt securities and the currency or currency unit in which the debt securities are payable;

the denominations in which we will issue the series of debt securities, if other than denominations of \$1,000 and any integral multiple thereof;

any and all terms, if applicable, relating to any auction or remarketing of the debt securities of that series and any security for our obligations with respect to such debt securities and any other terms which may be advisable in connection with the marketing of debt securities of that series;

whether the debt securities of the series shall be issued in whole or in part in the form of a global security or securities; the terms and conditions, if any, upon which such global security or securities may be exchanged in whole or in part for other individual securities, and the depositary for such global security or securities;

if applicable, the provisions relating to conversion or exchange of any debt securities of the series and the terms and conditions upon which such debt securities will be so convertible or exchangeable, including the conversion or exchange price, as applicable, or how it will be calculated and may be adjusted, any mandatory or optional (at our option or at the holders' option) conversion or exchange features, the applicable conversion or exchange period and the manner of settlement for any conversion or exchange;

if other than the full principal amount thereof, the portion of the principal amount of debt securities of the series which shall be payable upon declaration of acceleration of the maturity thereof;

additions to or changes in the covenants applicable to the particular debt securities being issued, including, among others, the consolidation, merger or sale covenant;

additions to or changes in the events of default with respect to the securities and any change in the right of the trustee or the holders to declare the principal, premium, if any, and interest, if any, with respect to such securities to be due and payable;

additions to or changes in or deletions of the provisions relating to covenant defeasance and legal defeasance;

additions to or changes in the provisions relating to satisfaction and discharge of the indenture;

additions to or changes in the provisions relating to the modification of the indenture both with and without the consent of the holders of the debt securities issued under the indenture;

the currency of payment of the debt securities if other than U.S. dollars and the manner of determining the equivalent amount in U.S. dollars;

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whether interest will be payable in cash or additional debt securities at our or the holders' option and the terms and conditions upon which the election may be made;

the terms and conditions, if any, upon which we will pay amounts in addition to the stated interest, premium, if any, and principal amounts of the debt securities of the series to any holder that is not a United States person for federal tax purposes;

any restrictions on transfer, sale or assignment of the debt securities of the series; and

any other specific terms, preferences, rights or limitations of, or restrictions on, the debt securities, any other additions or changes in the provisions of the indenture, and any terms that may be required by us or advisable under applicable laws or regulations.

Conversion or Exchange Rights

We will set forth in the applicable prospectus supplement the terms on which a series of debt securities may be convertible into or exchangeable for our common stock or our other securities. We will include provisions as to settlement upon conversion or exchange and whether conversion or exchange is mandatory, at the option of the holder or at our option. We may include provisions pursuant to which the number of shares of our common stock or our other securities that the holders of the series of debt securities receive would be subject to adjustment.

Consolidation, Merger or Sale

Unless we provide otherwise in the prospectus supplement applicable to a particular series of debt securities, the indenture will not contain any covenant that restricts our ability to merge or consolidate, or sell, convey, transfer or otherwise dispose of our assets as an entirety or substantially as an entirety. However, any successor to or acquirer of such assets (other than a subsidiary of ours) must assume all of our obligations under the indenture or the debt securities, as appropriate.

Events of Default under the Indenture

Unless we provide otherwise in the prospectus supplement applicable to a particular series of debt securities, the following are events of default under the indenture with respect to any series of debt securities that we may issue:

if we fail to pay any installment of interest on any series of debt securities, as and when the same shall become due and payable, and such default continues for a period of 90 days; provided, however, that a valid extension of an interest payment period by us in accordance with the terms of any indenture supplemental thereto shall not constitute a default in the payment of interest for this purpose;

if we fail to pay the principal of, or premium, if any, on any series of debt securities as and when the same shall become due and payable whether at maturity, upon redemption, by declaration or otherwise, or in any payment required by any sinking or analogous fund established with respect to such series; provided, however, that a valid extension of the maturity of such debt securities in accordance with the terms of any indenture supplemental thereto shall not constitute a default in the payment of principal or premium, if any;

if we fail to observe or perform any other covenant or agreement contained in the debt securities or the indenture, other than a covenant specifically relating to another series of debt securities, and our failure continues for a period of 90 days after we receive written notice of such failure, requiring the same to be remedied and stating that such is a notice of default thereunder, from the trustee or holders of at least 25% of the aggregate principal amount of the outstanding debt securities of the applicable series; and

if specified events of bankruptcy, insolvency or reorganization occur.

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If an event of default with respect to debt securities of any series occurs and is continuing, other than certain specified events of bankruptcy, insolvency or reorganization, the trustee or the holders of at least 25% of the aggregate principal amount of the outstanding debt securities of that series, by notice to us in writing, and to the trustee if notice is given by such holders, may declare the unpaid principal, premium, if any, and accrued interest, if any, of such series of debt securities immediately due and payable. If certain specified events of bankruptcy, insolvency or reorganization occur with respect to us, the principal amount and accrued interest, if any, of each issue of debt securities then outstanding shall be due and payable without any notice or other action on the part of the trustee or any holder.

The holders of a majority of the principal amount of the outstanding debt securities of an affected series may waive any default or event of default with respect to the series and its consequences, except defaults or events of default regarding payment of principal, premium, if any, or interest, unless we have cured the default or event of default in accordance with the indenture. Any waiver shall cure the default or event of default.

Subject to the terms of the indenture, if an event of default under an indenture shall occur and be continuing, the trustee will be under no obligation to exercise any of its rights or powers under such indenture at the request or direction of any of the holders of the applicable series of debt securities, unless such holders have offered the trustee reasonable indemnity. The holders of a majority of the principal amount of the outstanding debt securities of any series will have the right to direct the time, method and place of conducting any proceeding for any remedy available to the trustee, or exercising any trust or power conferred on the trustee, with respect to the debt securities of that series, provided that:

the direction so given by the holder is not in conflict with any law or the applicable indenture; and

subject to its duties under the Trust Indenture Act, the trustee need not take any action that might involve it in personal liability or might be unduly prejudicial to the holders not involved in the proceeding.

A holder of the debt securities of any series will have the right to institute a proceeding under the indenture or to appoint a receiver or trustee, or to seek other remedies, only if:

the holder has given written notice to the trustee of a continuing event of default with respect to that series;

the holders of at least 25% of the aggregate principal amount of the outstanding debt securities of that series have made a written request;

such holders have offered to the trustee indemnity satisfactory to it against the costs, expenses and liabilities to be incurred by the trustee in compliance with the request; and

the trustee does not institute the proceeding, and does not receive from the holders of a majority of the aggregate principal amount of the outstanding debt securities of that series other conflicting directions within 90 days after the notice, request and offer.

These limitations do not apply to a suit instituted by a holder of debt securities if we default in the payment of the principal of, or the premium, if any, or interest on, the debt securities.

We will periodically file statements with the trustee regarding our compliance with specified covenants in the indenture.

Modification of Indenture; Waiver

Unless we provide otherwise in the prospectus supplement applicable to a particular series of debt securities, we and the trustee may change an indenture without the consent of any holders with respect to specific matters, including, but not limited to, the following:

to cure any ambiguity, defect or inconsistency in the indenture or in the debt securities of any series;

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to comply with the provisions described above under Consolidation, Merger or Sale ;

to provide for uncertificated debt securities in addition to or in place of certificated debt securities;

to add to our covenants, restrictions, conditions or provisions such new covenants, restrictions, conditions or provisions for the benefit of the holders of all or any series of debt securities, to make the occurrence, or the occurrence and the continuance, of a default in any such additional covenants, restrictions, conditions or provisions an event of default or to surrender any right or power conferred upon us in the indenture;

to add to, delete from or revise the conditions, limitations and restrictions on the authorized amount, terms or purposes of issue, authentication and delivery of debt securities, as set forth in the indenture;

to make any change that does not adversely affect the interests of any holder of debt securities of any series in any material respect;

to provide for the issuance of, and to establish the form and terms and conditions of, the debt securities of any series as provided above under General Matters , to establish the form of any certifications required to be furnished pursuant to the terms of the indenture or any series of debt securities, or to add to the rights of the holders of any series of debt securities;

to evidence and provide for the acceptance of appointment under any indenture by a successor trustee; or

to comply with any requirements of the SEC in connection with the qualification of any indenture under the Trust Indenture Act.

In addition, under the indenture, the rights of holders of a series of debt securities may be changed by us and the trustee with the written consent of the holders of at least a majority of the aggregate principal amount of the outstanding debt securities of each series that is affected. However, unless we provide otherwise in the prospectus supplement applicable to a particular series of debt securities, we and the trustee may make the following changes only with the consent of each holder of any outstanding debt securities affected:

extending the fixed maturity of any debt securities of any series;

reducing the principal amount, reducing the rate of or extending the time of payment of interest, or reducing any premium payable upon the redemption of any series of debt securities; or

reducing the percentage of debt securities, the holders of which are required to consent to any amendment, supplement, modification or waiver.

Discharge

The indenture provides that we can elect to be discharged from our obligations with respect to one or more series of debt securities, except for specified obligations, including, but not limited to, the following obligations to:

provide for payment;

register the transfer or exchange of debt securities of the series;

replace stolen, lost or mutilated debt securities of the series;

pay principal of and premium and interest on any debt securities of the series;

maintain paying agencies;

hold monies for payment in trust;

recover excess money held by the trustee;

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compensate and indemnify the trustee; and

appoint any successor trustee.

In order to exercise our rights to be discharged, we must deposit with the trustee money or government obligations sufficient to pay all the principal of, and any premium, if any, and interest on, the debt securities of the series on the dates payments are due.

Form, Exchange and Transfer

We will issue the debt securities of each series only in fully registered form without coupons and, unless we provide otherwise in the applicable prospectus supplement, in denominations of \$1,000 and any integral multiple thereof. The indenture provides that we may issue debt securities of a series in temporary or permanent global form and as book-entry securities that will be deposited with, or on behalf of, The Depository Trust Company, New York, New York, known as DTC, or another depository named by us and identified in the applicable prospectus supplement with respect to that series. To the extent the debt securities of a series are issued in global form and as book-entry, a description of terms relating to any book-entry securities will be set forth in the applicable prospectus supplement.

At the option of the holder, subject to the terms of the indenture and the limitations applicable to global securities described in the applicable prospectus supplement, the holder of the debt securities of any series can exchange the debt securities for other debt securities of the same series, in any authorized denomination and of like tenor and aggregate principal amount.

Subject to the terms of the indenture and the limitations applicable to global securities set forth in the applicable prospectus supplement, holders of the debt securities may present the debt securities for exchange or for registration of transfer, duly endorsed or with the form of transfer endorsed thereon duly executed if so required by us or the security registrar, at the office of the security registrar or at the office of any transfer agent designated by us for this purpose. Unless otherwise provided in the debt securities that the holder presents for transfer or exchange, we will impose no service charge for any registration of transfer or exchange, but we may require payment of any taxes or other governmental charges.

We will name in the applicable prospectus supplement the security registrar, and any transfer agent in addition to the security registrar, that we initially designate for any debt securities. We may at any time designate additional transfer agents or rescind the designation of any transfer agent or approve a change in the office through which any transfer agent acts, except that we will be required to maintain a transfer agent in each place of payment for the debt securities of each series.

If we elect to redeem the debt securities of any series, we will not be required to:

issue, register the transfer of, or exchange any debt securities of that series during a period beginning at the opening of business 15 days before the date of mailing of a notice of redemption of any debt securities that may be selected for redemption and ending at the close of business on the date of the mailing; or

register the transfer of or exchange any debt securities so selected for redemption, in whole or in part, except for the unredeemed portion of any debt securities we are redeeming in part.

Information Concerning the Trustee

The trustee, other than during the occurrence and continuance of an event of default under an indenture, undertakes to perform only those duties as are specifically set forth in the applicable indenture. Upon an event of default under an indenture, the trustee must use the same degree of care as a prudent person would exercise or

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use in the conduct of his or her own affairs. Subject to this provision, the trustee is under no obligation to exercise any of the powers given to it by the indenture at the request of any holder of debt securities unless it is offered reasonable security and indemnity against the costs, expenses and liabilities that it might incur.

Payment and Paying Agents

Unless we otherwise indicate in the applicable prospectus supplement, we will make payment of the interest on any debt securities on any interest payment date to the person in whose name the debt securities, or one or more predecessor securities, are registered at the close of business on the regular record date for the interest.

We will pay principal of and any premium and interest on the debt securities of a particular series at the office of the paying agents designated by us, except that, unless we otherwise indicate in the applicable prospectus supplement, we will make interest payments by check that we will mail to the holder or by wire transfer to certain holders. Unless we otherwise indicate in the applicable prospectus supplement, we will designate the corporate trust office of the trustee as our sole paying agent for payments with respect to debt securities of each series. We will name in the applicable prospectus supplement any other paying agents that we initially designate for the debt securities of a particular series. We will maintain a paying agent in each place of payment for the debt securities of a particular series.

All money we pay to a paying agent or the trustee for the payment of the principal of, or any premium or interest on, any debt securities that remains unclaimed at the end of two years after such principal, premium or interest has become due and payable will be repaid to us, and the holder of the debt security thereafter may look only to us for payment thereof.

Governing Law

The indenture and the debt securities, and any claim, controversy or dispute arising under or related to the indenture or the debt securities, will be governed by and construed in accordance with the laws of the State of New York, except to the extent that the Trust Indenture Act is applicable.

Perceptive Credit Agreement

On April 17, 2018, we entered into a Credit Agreement and Guaranty, or the Perceptive Credit Agreement, with Perceptive as a lender and administrative agent for the several banks and other financial institutions or entities from time to time party to the Perceptive Credit Agreement for an initial term loan of \$15.0 million, or the Tranche A Term Loan, with a second tranche of \$10.0 million available at our option, subject to the satisfaction of customary conditions, or the Tranche B Term Loan, and, together with the Tranche A Term Loan, the Term Loan. In connection with the Perceptive Credit Agreement, we entered into a Security Agreement with Perceptive, as administrative agent, or the Security Agreement. The Security Agreement provides that the Term Loan is secured by substantially all of our assets and a pledge of 65% of the equity interests of CareDx International AB. The Term Loan accrues interest per annum at 9.00%, or the Applicable Margin, plus the greater of the one-month LIBOR or 1.5%. Payments under the Perceptive Credit Agreement are interest-only until the first principal payment is due on April 30, 2021, followed by monthly payments of principal and interest through the scheduled maturity date on April 17, 2023. We may prepay the Term Loan, in whole or in part at any time, subject to a prepayment fee.

The Perceptive Credit Agreement contains customary affirmative and restrictive covenants and representations and warranties, including financial reporting obligations and limitations on indebtedness,

liens, fundamental changes, acquisitions, investments, dividends or distributions, corporate changes, asset sales, affiliate transactions, material agreements, licenses, sale and leaseback transactions, hazardous materials, accounting, compliance with laws and reimbursement of certain expenses of Perceptive. The Perceptive Credit Agreement also contains other customary provisions, such as expense reimbursement and confidentiality obligations, as well as indemnification rights for the benefit of Perceptive.

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The Perceptive Credit Agreement provides for customary events of default, including, among other things, nonpayments of principal, interest and other amounts, inaccuracies in representations and warranties, failure to comply with covenants, defaults on other material indebtedness, bankruptcy or insolvency, judgments, changes of control or impairments of Perceptive's security interests. Upon the occurrence of an event of default and following any applicable cure periods, if any, the Applicable Margin shall automatically increase 3.00% per annum, or the Default Rate. The Default Rate may be applied to the outstanding loan balances, and Perceptive may declare all outstanding obligations immediately due and payable and take such other actions as set forth in the Perceptive Credit Agreement.

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DESCRIPTION OF WARRANTS

The following description, together with the additional information we may include in the applicable prospectus supplements and free writing prospectuses we have authorized for use in connection with a specific offering, summarizes the material terms and provisions of the warrants that we may offer under this prospectus, which may consist of warrants to purchase common stock, preferred stock or debt securities and may be issued in one or more series.

Warrants may be issued independently or together with common stock, preferred stock or debt securities offered by any prospectus supplement, and may be attached to or separate from those securities. While the terms we have summarized below will apply generally to any warrants that we may offer under this prospectus, we will describe the particular terms of any series of warrants that we may offer in more detail in the applicable prospectus supplement and any applicable free writing prospectus we authorize for use in connection with the specific offering. The terms of any warrants offered under a prospectus supplement may differ from the terms described below.

We will file as exhibits to the registration statement of which this prospectus is a part, or will incorporate by reference from reports that we file with the SEC, the form of warrant agreement, if any, including a form of warrant certificate, that describes the terms of the particular series of warrants we are offering. The following summaries of material provisions of the warrants and the warrant agreements are subject to, and qualified in their entirety by reference to, all the provisions of the warrant agreement and warrant certificate applicable to the particular series of warrants that we may offer under this prospectus. We urge you to read the applicable prospectus supplements related to the particular series of warrants that we may offer under this prospectus, as well as any related free writing prospectuses we have authorized for use in connection with a specific offering, and the complete warrant agreements and warrant certificates that contain the terms of the warrants.

General Matters

We will describe in the applicable prospectus supplement the terms relating to a series of warrants being offered, including:

the title of such securities;

the offering price or prices and aggregate number of warrants offered;

the currency or currencies for which the warrants may be purchased;

if applicable, the designation and terms of the securities with which the warrants are issued and the number of warrants issued with each such security or each principal amount of such security;

if applicable, the date on and after which the warrants and the related securities will be separately transferable;

if applicable, the minimum or maximum amount of such warrants which may be exercised at any one time;

in the case of warrants to purchase debt securities, the principal amount of debt securities purchasable upon exercise of one warrant and the price at which, and currency in which, this principal amount of debt securities may be purchased upon such exercise;

in the case of warrants to purchase common stock or preferred stock, the number of shares of common stock or preferred stock, as the case may be, purchasable upon the exercise of one warrant and the price at which, and the currency in which, these shares may be purchased upon such exercise;

the effect of any merger, consolidation, sale or other disposition of our business on the warrant agreements and the warrants;

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the terms of any rights to redeem or call the warrants;

the terms of any rights to force the exercise of the warrants;

any provisions for changes to or adjustments in the exercise price or number of securities issuable upon exercise of the warrants;

the dates on which the right to exercise the warrants will commence and expire;

the manner in which the warrant agreements and warrants may be modified;

a discussion of any material or special United States federal income tax consequences of holding or exercising the warrants;

the terms of the securities issuable upon exercise of the warrants; and

any other specific terms, preferences, rights or limitations of or restrictions on the warrants.

Before exercising their warrants, holders of warrants will not have any of the rights of holders of the securities purchasable upon such exercise, including:

in the case of warrants to purchase debt securities, the right to receive payments of principal of, or premium, if any, or interest on, the debt securities purchasable upon exercise or to enforce covenants in the applicable indenture; or

in the case of warrants to purchase common stock or preferred stock, the right to receive dividends, if any, or, payments upon our liquidation, dissolution or winding up or to exercise voting rights, if any.

Exercise of Warrants

Each warrant will entitle the holder to purchase the securities that we specify in the applicable prospectus supplement at the exercise price that we describe in the applicable prospectus supplement. Unless we otherwise specify in the applicable prospectus supplement, holders of the warrants may exercise the warrants at any time up to the specified time on the expiration date that we set forth in the applicable prospectus supplement. After the close of business on the expiration date, unexercised warrants will become void.

Unless we otherwise specify in the applicable prospectus supplement, holders of the warrants may exercise the warrants by delivering the warrant certificate representing the warrants to be exercised together with specified information, and paying the required amount to the warrant agent in immediately available funds, as provided in the applicable prospectus supplement. We will set forth on the reverse side of the warrant

certificate and in the applicable prospectus supplement the information that the holder of the warrant will be required to deliver to the warrant agent in connection with the exercise of the warrant.

Upon receipt of the required payment and the warrant certificate properly completed and duly executed at the corporate trust office of the warrant agent or any other office indicated in the applicable prospectus supplement, we will issue and deliver the securities purchasable upon such exercise. If fewer than all of the warrants represented by the warrant certificate are exercised, then we will issue a new warrant certificate for the remaining amount of warrants. If we so indicate in the applicable prospectus supplement, holders of the warrants may surrender securities as all or part of the exercise price for warrants.

Governing Law

Unless we provide otherwise in the applicable prospectus supplement, the warrants and warrant agreements, and any claim, controversy or dispute arising under or related to the warrants or warrant agreements, will be governed by and construed in accordance with the laws of the State of New York.

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Enforceability of Rights by Holders of Warrants

Each warrant agent will act solely as our agent under the applicable warrant agreement and will not assume any obligation or relationship of agency or trust with any holder of any warrant. A single bank or trust company may act as warrant agent for more than one issue of warrants. A warrant agent will have no duty or responsibility in case of any default by us under the applicable warrant agreement or warrant, including any duty or responsibility to initiate any proceedings at law or otherwise, or to make any demand upon us. Any holder of a warrant may, without the consent of the related warrant agent or the holder of any other warrant, enforce by appropriate legal action its right to exercise, and receive the securities purchasable upon exercise of, its warrants.

Warrant Agreement Will Not Be Qualified Under Trust Indenture Act

No warrant agreement will be qualified as an indenture, and no warrant agent will be required to qualify as a trustee, under the Trust Indenture Act. Therefore, holders of warrants issued under a warrant agreement will not have the protection of the Trust Indenture Act with respect to their warrants.

Calculation Agent

Calculations relating to warrants may be made by a calculation agent, an institution that we appoint as our agent for this purpose. The prospectus supplement for a particular warrant will name the institution that we have appointed to act as the calculation agent for that warrant as of the original issue date for that warrant. We may appoint a different institution to serve as calculation agent from time to time after the original issue date without the consent or notification of the holders.

The calculation agent's determination of any amount of money payable or securities deliverable with respect to a warrant will be final and binding in the absence of manifest error.

Outstanding Warrants

As of June 30, 2018, warrants to purchase an aggregate of 3,328,089 shares of our common stock with a weighted-average exercise price of \$5.08 per share were outstanding. For additional information about our outstanding warrants, see the information under the heading "Warrants" in the section of this prospectus entitled "Description of Capital Stock".

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DESCRIPTION OF UNITS

We may issue units consisting of any combination of the other types of securities offered under this prospectus in one or more series. We may evidence each series of units by unit certificates that we will issue under a separate agreement. We may enter into unit agreements with a unit agent. Each unit agent will be a bank or trust company that we select. We will indicate the name and address of the unit agent in the applicable prospectus supplement relating to a particular series of units.

The following description, together with the additional information included in the applicable prospectus supplement, summarizes the general features of the units that we may offer under this prospectus. You should read any prospectus supplement and any free writing prospectus we authorize for use in connection with a specific offering of units, as well as the complete unit agreements that contain the terms of the units. Specific unit agreements will contain additional important terms and provisions and we will file as an exhibit to the registration statement of which this prospectus is a part, or will incorporate by reference from another report that we file with the SEC, the form of each unit agreement relating to units offered under this prospectus.

If we offer any units, certain terms of that series of units will be described in the applicable prospectus supplement, including, without limitation, the following, as applicable:

the title of the series of units;

identification and description of the separate constituent securities comprising the units;

the price or prices at which the units will be issued;

the date, if any, on and after which the constituent securities comprising the units will be separately transferable;

a discussion of certain U.S. federal income tax considerations applicable to the units; and

any other terms of the units and their constituent securities.

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LEGAL OWNERSHIP OF SECURITIES

We can issue securities in registered form or in the form of one or more global securities. We describe global securities in greater detail below. We refer to those persons who have securities registered in their own names on the books that we or any applicable trustee or depositary maintain for this purpose as the holders of those securities. These persons are the legal holders of the securities. We refer to those persons who, indirectly through others, own beneficial interests in securities that are not registered in their own names, as indirect holders of those securities. As we discuss below, indirect holders are not legal holders, and investors in securities issued in book-entry form or in street name will be indirect holders.

Book-Entry Holders

We may issue securities in book-entry form only, as we will specify in the applicable prospectus supplement. This means securities may be represented by one or more global securities registered in the name of a financial institution that holds them as depositary on behalf of other financial institutions that participate in the depositary's book-entry system. These participating institutions, which are referred to as participants, in turn, hold beneficial interests in the securities on behalf of themselves or their customers.

Only the person in whose name a security is registered is recognized as the holder of that security. Global securities will be registered in the name of the depositary or its participants. Consequently, for global securities, we will recognize only the depositary as the holder of the securities, and we will make all payments on the securities to the depositary. The depositary passes along the payments it receives to its participants, which in turn pass the payments along to their customers who are the beneficial owners. The depositary and its participants do so under agreements they have made with one another or with their customers; they are not obligated to do so under the terms of the securities.

As a result, investors in a global security will not own securities directly. Instead, they will own beneficial interests in a global security, through a bank, broker or other financial institution that participates in the depositary's book-entry system or holds an interest through a participant. As long as the securities are issued in global form, investors will be indirect holders, and not legal holders, of the securities.

Street Name Holders

We may terminate a global security in certain situations, as described under Special Situations When a Global Security Will Be Terminated, or issue securities that are not issued in global form. In these cases, investors may choose to hold their securities in their own names or in street name. Securities held by an investor in street name would be registered in the name of a bank, broker or other financial institution that the investor chooses, and the investor would hold only a beneficial interest in those securities through an account he or she maintains at that institution.

For securities held in street name, we or any applicable trustee or depositary will recognize only the intermediary banks, brokers and other financial institutions in whose names the securities are registered as the holders of those securities, and we or any such trustee or depositary will make all payments on those securities to them. These institutions pass along the payments they receive to their customers who are the beneficial owners, but only because they agree to do so in their customer agreements or because they are legally required to do so. Investors who hold securities in street name will be indirect holders, not holders, of those securities.

Legal Holders

Our obligations, as well as the obligations of any applicable trustee or third party employed by us or a trustee, run only to the legal holders of the securities. We do not have obligations to investors who hold beneficial interests in global securities, in street name or by any other indirect means. This will be the case whether an investor chooses to be an indirect holder of a security or has no choice because we are issuing the securities only in global form.

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For example, once we make a payment or give a notice to the legal holder, we have no further responsibility for the payment or notice even if that legal holder is required, under agreements with its participants or customers or by law, to pass the payment or notice along to the indirect holders but does not do so. Similarly, we may want to obtain the approval of the holders to amend an indenture, to relieve us of the consequences of a default or of our obligation to comply with a particular provision of an indenture, or for other purposes. In such an event, we would seek approval only from the legal holders, and not the indirect holders, of the securities. Whether and how the legal holders contact the indirect holders is up to the legal holders.

Special Considerations for Indirect Holders

If you hold securities through a bank, broker or other financial institution, either in book-entry form because the securities are represented by one or more global securities or in street name, you should check with your own institution to find out:

how it handles securities payments and notices;

whether it imposes fees or charges;

how it would handle a request for the holders' consent, if ever required;

whether and how you can instruct it to send you securities registered in your own name so you can be a holder, if that is permitted in the future;

how it would exercise rights under the securities if there were a default or other event triggering the need for holders to act to protect their interests; and

if the securities are in book-entry form, how the depository's rules and procedures will affect these matters.

Global Securities

A global security is a security that represents one or any other number of individual securities held by a depository. Generally, all securities represented by the same global securities will have the same terms.

Each security issued in book-entry form will be represented by a global security that we issue to, deposit with and register in the name of a financial institution or its nominee that we select. The financial institution that we select for this purpose is called the depository. Unless we specify otherwise in the applicable prospectus supplement, The Depository Trust Company, New York, New York, known as DTC, will be the depository for all securities issued in book-entry form.

A global security may not be transferred to or registered in the name of anyone other than the depository, its nominee or a successor depository, unless special termination situations arise. We describe those situations

below under **Special Situations When a Global Security Will Be Terminated** . As a result of these arrangements, the depositary, or its nominee, will be the sole registered owner and legal holder of all securities represented by a global security, and investors will be permitted to own only beneficial interests in a global security. Beneficial interests must be held by means of an account with a broker, bank or other financial institution that in turn has an account with the depositary or with another institution that does. Thus, an investor whose security is represented by a global security will not be a legal holder of the security, but only an indirect holder of a beneficial interest in the global security.

If the prospectus supplement for a particular security indicates that the security will be issued as a global security, then the security will be represented by a global security at all times unless and until the global security is terminated. If termination occurs, we may issue the securities through another book-entry clearing system or decide that the securities may no longer be held through any book-entry clearing system.

Special Considerations for Global Securities

As an indirect holder, an investor's rights relating to a global security will be governed by the account rules of the investor's financial institution and of the depositary, as well as general laws relating to securities transfers.

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We do not recognize an indirect holder as a holder of securities and instead deal only with the depository that holds the global security.

If securities are issued only as global securities, an investor should be aware of the following:

an investor cannot cause the securities to be registered in his or her name, and cannot obtain non-global certificates for his or her interest in the securities, except in the special situations described below;

an investor will be an indirect holder and must look to his or her own bank or broker for payments on the securities and protection of his or her legal rights relating to the securities, as described above;

an investor may not be able to sell interests in the securities to some insurance companies and to other institutions that are required by law to own their securities in non-book-entry form;

an investor may not be able to pledge his or her interest in the global security in circumstances where certificates representing the securities must be delivered to the lender or other beneficiary of the pledge in order for the pledge to be effective;

the depository's policies, which may change from time to time, will govern payments, transfers, exchanges and other matters relating to an investor's interest in the global security;

we and any applicable trustee have no responsibility for any aspect of the depository's actions or for its records of ownership interests in the global security, nor will we or any applicable trustee supervise the depository in any way;

the depository may, and we understand that DTC will, require that those who purchase and sell interests in the global security within its book-entry system use immediately available funds, and your broker or bank may require you to do the same; and

financial institutions that participate in the depository's book-entry system, and through which an investor holds its interest in the global security, may also have their own policies affecting payments, notices and other matters relating to the securities.

There may be more than one financial intermediary in the chain of ownership for an investor. We do not monitor and are not responsible for the actions of any of those intermediaries.

Special Situations When a Global Security Will Be Terminated

In a few special situations described below, a global security will terminate and interests in it will be exchanged for physical certificates representing those interests. After that exchange, the choice of whether to hold securities directly or in street name will be up to the investor. Investors must consult their own banks or brokers to find out how to have their interests in securities transferred to their own names, so that they will be direct holders. The rights of holders and street name investors are described above.

A global security will terminate when the following special situations occur:

if the depository notifies us that it is unwilling, unable or no longer qualified to continue as depository for that global security and we do not appoint another institution to act as depository within 90 days;

if we notify any applicable trustee that we wish to terminate that global security; or

if an event of default has occurred with regard to securities represented by that global security and has not been cured or waived.

The applicable prospectus supplement may also list additional situations for terminating a global security that would apply only to the particular series of securities covered by the prospectus supplement. When a global security terminates, the depository, and neither we nor any applicable trustee, is responsible for deciding the names of the institutions that will be the initial direct holders.

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PLAN OF DISTRIBUTION

We may sell the securities from time to time pursuant to underwritten public offerings, direct sales to the public, at the market offerings, negotiated transactions, block trades or a combination of these methods. We may sell the securities to or through underwriters or dealers, through agents, or directly to one or more purchasers. We may distribute securities from time to time in one or more transactions:

at a fixed price or prices, which may be changed;

at market prices prevailing at the time of sale;

at prices related to such prevailing market prices; or

at negotiated prices.

A prospectus supplement or supplements (and any related free writing prospectus that we may have authorized for use in connection with a specific offering) will describe the terms of the offering of the securities, including, to the extent applicable:

the name or names of the underwriters, if any;

the purchase price of the securities or other consideration therefor, and the proceeds, if any, we will receive from the sale;

any over-allotment options under which underwriters may purchase additional securities from us;

any agency fees or underwriting discounts and other items constituting agents or underwriters compensation;

any public offering price;

any discounts or concessions allowed or re-allowed or paid to dealers; and

any securities exchange or market on which the securities may be listed.

Only underwriters named in the prospectus supplement will be underwriters of the securities offered by the prospectus supplement.

If underwriters are used in the sale, they will acquire the securities for their own account and may resell the securities from time to time in one or more transactions at a fixed public offering price or at varying prices determined at the time of sale. The obligations of the underwriters to purchase the securities will be subject to the conditions set forth in the applicable underwriting agreement. We may offer the securities to the public through underwriting syndicates represented by managing underwriters or by underwriters without a syndicate. Subject to certain conditions, the underwriters will be obligated to purchase all of the securities offered by the prospectus supplement, other than securities covered by any over-allotment option. Any public offering price and any discounts or concessions allowed or re-allowed or paid to dealers may change from time to time. We may use underwriters with whom we have a material relationship. We will describe in the prospectus supplement, naming the underwriter, the nature of any such relationship.

We may sell securities directly or through agents we designate from time to time. We will name any agent involved in the offering and sale of securities and we will describe any commissions we will pay the agent in the prospectus supplement. Unless the prospectus supplement states otherwise, our agent will act on a best-efforts basis for the period of its appointment.

We may authorize agents or underwriters to solicit offers by certain types of institutional investors to purchase securities from us at the public offering price set forth in the prospectus supplement pursuant to delayed delivery contracts providing for payment and delivery on a specified date in the future. We will describe the conditions to these contracts and the commissions we must pay for solicitation of these contracts in the prospectus supplement.

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We may provide agents and underwriters with indemnification against civil liabilities, including liabilities under the Securities Act, or contribution with respect to payments that the agents or underwriters may make with respect to these liabilities. Agents and underwriters may engage in transactions with, or perform services for, us in the ordinary course of business.

All securities we may offer, other than common stock, will be new issues of securities with no established trading market. Any underwriters may make a market in these securities, but will not be obligated to do so and may discontinue any market making at any time without notice. We cannot guarantee the liquidity of the trading markets for any securities.

Any underwriter may engage in over-allotment, stabilizing transactions, short-covering transactions and penalty bids in accordance with Regulation M under the Exchange Act. Over-allotment involves sales in excess of the offering size, which create a short position. Stabilizing transactions permit bids to purchase the underlying security so long as the stabilizing bids do not exceed a specified maximum price.

Syndicate-covering or other short-covering transactions involve purchases of the securities, either through exercise of the over-allotment option or in the open market after the distribution is completed, to cover short positions. Penalty bids permit the underwriters to reclaim a selling concession from a dealer when the securities originally sold by the dealer are purchased in a stabilizing or covering transaction to cover short positions. Those activities may cause the price of the securities to be higher than it would otherwise be. If commenced, the underwriters may discontinue any of the activities at any time.

Any underwriters that are qualified market makers on the Nasdaq Global Market may engage in passive market making transactions in the common stock on the Nasdaq Global Market in accordance with Regulation M under the Exchange Act, during the business day prior to the pricing of the offering, before the commencement of offers or sales of the common stock. Passive market makers must comply with applicable volume and price limitations and must be identified as passive market makers. In general, a passive market maker must display its bid at a price not in excess of the highest independent bid for such security; if all independent bids are lowered below the passive market maker's bid, however, the passive market maker's bid must then be lowered when certain purchase limits are exceeded. Passive market making may stabilize the market price of the securities at a level above that which might otherwise prevail in the open market and, if commenced, may be discontinued at any time.

In compliance with guidelines of the Financial Industry Regulatory Authority, or FINRA, the maximum consideration or discount to be received by any FINRA member or independent broker dealer may not exceed 8% of the aggregate amount of the securities offered pursuant to this prospectus and the applicable prospectus supplement.

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LEGAL MATTERS

Unless otherwise indicated in the applicable prospectus supplement, the validity of the securities offered by this prospectus, and any supplement thereto, will be passed upon for us by Paul Hastings LLP, Palo Alto, California.

EXPERTS

Ernst & Young LLP, independent registered public accounting firm, has audited our consolidated financial statements included in our Annual Report on Form 10-K for the year ended December 31, 2017, as set forth in their report, which is incorporated by reference in this prospectus and elsewhere in the registration statement. Our financial statements are incorporated by reference in reliance on Ernst & Young LLP's report, given on their authority as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

We are a reporting company and file annual, quarterly and current reports, proxy statements and other information with the SEC. We have filed with the SEC a registration statement on Form S-3 under the Securities Act with respect to the securities being offered under this prospectus. This prospectus does not contain all of the information set forth in the registration statement and the exhibits to the registration statement. For further information with respect to us and the securities being offered under this prospectus, we refer you to the registration statement and the exhibits and schedules filed as a part of the registration statement. You may read and copy the registration statement, as well as our reports, proxy statements and other information, at the SEC's Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for more information about the operation of the Public Reference Room. The SEC maintains an Internet site that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC, including CareDx, Inc. The SEC's Internet site can be found at <http://www.sec.gov>.

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IMPORTANT INFORMATION INCORPORATED BY REFERENCE

The SEC allows us to incorporate by reference information into this prospectus, which means that we can disclose important information to you by referring you to another document filed separately with the SEC. The documents incorporated by reference into this prospectus contain important information that you should read about us.

The following documents are incorporated by reference into this prospectus:

- (a) The Registrant's Annual Report on Form 10-K for the fiscal year ended December 31, 2017, filed with the SEC on March 22, 2018;
- (b) The Registrant's Definitive Proxy Statement on Schedule 14A filed with the SEC on April 30, 2018;
- (c) The Registrant's Quarterly Reports on Form 10-Q for (i) the quarter ended March 31, 2018, filed with the SEC on May 10, 2018, and (ii) the quarter ended June 30, 2018, filed with the SEC on August 9, 2018;
- (d) The Registrant's Current Reports on Form 8-K filed with the SEC on (i) March 1, 2018, (ii) April 16, 2018, (iii) April 18, 2018, (iv) May 8, 2018, (v) June 26, 2018, (vi) June 28, 2018, and (vii) August 6, 2018; and
- (e) The description of the Registrant's common stock set forth in the Registrant's Registration Statement on Form 8-A (File No. 001-36536), filed with the SEC on July 11, 2014, including any amendments or reports filed for the purpose of updating such description.

We also incorporate by reference any future filings (other than current reports furnished under Item 2.02 or Item 7.01 of Form 8-K and exhibits filed on such form that are related to such items unless such Form 8-K expressly provides to the contrary) made with the SEC pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act, including those made after the date of the initial filing of the registration statement of which this prospectus is a part and prior to effectiveness of such registration statement, until we file a post-effective amendment that indicates the termination of the offering of the securities made by this prospectus and will become a part of this prospectus from the respective dates that such documents are filed with the SEC. Any statement contained herein or in a document incorporated or deemed to be incorporated by reference herein shall be deemed to be modified or superseded for purposes hereof or of the related prospectus supplement to the extent that a statement contained herein or in any other subsequently filed document which is also incorporated or deemed to be incorporated herein modifies or supersedes such statement. Any such statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this prospectus.

The documents incorporated by reference into this prospectus are also available on our corporate website at www.caredx.com under the heading "Investors." Information contained on, or that can be accessed through, our website is not part of this prospectus, and you should not consider information on our website to be part of

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this report unless specifically incorporated herein by reference. You may obtain copies of the documents incorporated by reference in this prospectus from us free of charge by requesting them in writing or by telephone at the following address:

CareDx, Inc.

3260 Bayshore Boulevard

Brisbane, CA 94005

Attn: Investor Relations

Telephone Number: (415) 287-2300

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2,000,000 Shares

Common Stock

PROSPECTUS SUPPLEMENT

Joint Book-Running Managers

Jefferies

Piper Jaffray

Co-Manager

Craig-Hallum Capital Group

November 13, 2018