

ILLUMINA INC

Form 10-Q

October 24, 2018

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-Q

Quarterly Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

For the Quarterly Period Ended September 30, 2018

Transition Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

For the transition period from _____ to _____

Commission File Number 001-35406

Illumina, Inc.

(Exact name of registrant as specified in its charter)

Delaware 33-0804655

(State or other jurisdiction of (I.R.S. Employer
incorporation or organization) Identification No.)

5200 Illumina Way, 92122
San Diego, CA
(Address of principal executive offices) (Zip Code)
(858) 202-4500

(Registrant's telephone number, including area code)

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

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

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

Large accelerated filer Accelerated filer

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

Emerging growth company

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

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).

Yes No

As of October 19, 2018, there were 147 million shares of the registrant's common stock outstanding.

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PART I. FINANCIAL INFORMATION

Item 1. Financial Statements.

ILLUMINA, INC.

CONDENSED CONSOLIDATED BALANCE SHEETS

(In millions)

| | September 30, 2018 | December 31, 2017 |
|---|-----------------------|----------------------|
| | (Unaudited) | |
| ASSETS | | |
| Current assets: | | |
| Cash and cash equivalents | \$ 1,346 | \$ 1,225 |
| Short-term investments | 2,043 | 920 |
| Accounts receivable, net | 433 | 411 |
| Inventory | 374 | 333 |
| Prepaid expenses and other current assets | 66 | 91 |
| Total current assets | 4,262 | 2,980 |
| Property and equipment, net | 1,060 | 931 |
| Goodwill | 831 | 771 |
| Intangible assets, net | 195 | 175 |
| Deferred tax assets | 86 | 88 |
| Other assets | 325 | 312 |
| Total assets | \$ 6,759 | \$ 5,257 |
| LIABILITIES AND STOCKHOLDERS' EQUITY | | |
| Current liabilities: | | |
| Accounts payable | \$ 156 | \$ 160 |
| Accrued liabilities | 450 | 432 |
| Build-to-suit lease liability | 22 | 144 |
| Long-term debt, current portion | 1,107 | 10 |
| Total current liabilities | 1,735 | 746 |
| Long-term debt | 860 | 1,182 |
| Other long-term liabilities | 352 | 360 |
| Redeemable noncontrolling interests | 218 | 220 |
| Stockholders' equity: | | |
| Preferred stock | — | — |
| Common stock | 2 | 2 |
| Additional paid-in capital | 3,093 | 2,833 |
| Accumulated other comprehensive loss | (2 |) (1 |
| Retained earnings | 2,872 | 2,256 |
| Treasury stock, at cost | (2,462 |) (2,341 |
| Total Illumina stockholders' equity | 3,503 | 2,749 |
| Noncontrolling interests | 91 | — |
| Total stockholders' equity | 3,594 | 2,749 |
| Total liabilities and stockholders' equity | \$ 6,759 | \$ 5,257 |

See accompanying notes to condensed consolidated financial statements.

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ILLUMINA, INC.
 CONDENSED CONSOLIDATED STATEMENTS OF INCOME
 (Unaudited)
 (In millions, except per share amounts)

| | Three Months Ended | | Nine Months Ended | |
|---|-----------------------|--------------------|-----------------------|--------------------|
| | September 30, 2018 | October 1, 2017 | September 30, 2018 | October 1, 2017 |
| Revenue: | | | | |
| Product revenue | \$710 | \$ 596 | \$2,011 | \$ 1,631 |
| Service and other revenue | 143 | 118 | 455 | 344 |
| Total revenue | 853 | 714 | 2,466 | 1,975 |
| Cost of revenue: | | | | |
| Cost of product revenue | 184 | 173 | 540 | 508 |
| Cost of service and other revenue | 62 | 50 | 190 | 153 |
| Amortization of acquired intangible assets | 10 | 9 | 26 | 30 |
| Total cost of revenue | 256 | 232 | 756 | 691 |
| Gross profit | 597 | 482 | 1,710 | 1,284 |
| Operating expense: | | | | |
| Research and development | 159 | 134 | 447 | 409 |
| Selling, general and administrative | 197 | 167 | 577 | 499 |
| Total operating expense | 356 | 301 | 1,024 | 908 |
| Income from operations | 241 | 181 | 686 | 376 |
| Other income (expense): | | | | |
| Interest income | 14 | 4 | 31 | 13 |
| Interest expense | (15) | (10) | (37) | (26) |
| Other (expense) income, net | (8) | — | 5 | 457 |
| Total other (expense) income, net | (9) | (6) | (1) | 444 |
| Income before income taxes | 232 | 175 | 685 | 820 |
| Provision for income taxes | 44 | 23 | 100 | 199 |
| Consolidated net income | 188 | 152 | 585 | 621 |
| Add: Net loss attributable to noncontrolling interests | 11 | 11 | 31 | 37 |
| Net income attributable to Illumina stockholders | \$199 | \$ 163 | \$616 | \$ 658 |
| Net income attributable to Illumina stockholders for earnings per share | \$199 | \$ 163 | \$616 | \$ 657 |
| Earnings per share attributable to Illumina stockholders: | | | | |
| Basic | \$1.35 | \$ 1.12 | \$4.20 | \$ 4.49 |
| Diluted | \$1.33 | \$ 1.11 | \$4.15 | \$ 4.45 |
| Shares used in computing earnings per share: | | | | |
| Basic | 147 | 146 | 147 | 146 |
| Diluted | 149 | 148 | 148 | 148 |

See accompanying notes to condensed consolidated financial statements.

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ILLUMINA, INC.

CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(Unaudited)

(In millions)

| | Three Months | | Nine Months | |
|---|--------------|------------|-------------|------------|
| | Ended | | Ended | |
| | September | October 1, | September | October 1, |
| | 2018 | 2017 | 2018 | 2017 |
| Consolidated net income | \$ 188 | \$ 152 | \$ 585 | \$ 621 |
| Unrealized (loss) gain on available-for-sale debt securities, net of deferred tax | (1) | 1 | (1) | 1 |
| Total consolidated comprehensive income | 187 | 153 | 584 | 622 |
| Add: Comprehensive loss attributable to noncontrolling interests | 11 | 11 | 31 | 37 |
| Comprehensive income attributable to Illumina stockholders | \$ 198 | \$ 164 | \$ 615 | \$ 659 |
| See accompanying notes to condensed consolidated financial statements. | | | | |

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ILLUMINA, INC.

CONDENSED CONSOLIDATED STATEMENT OF STOCKHOLDERS' EQUITY

(Unaudited)

(In millions)

| | Illumina Stockholders | | | | | | Total Stockholders' Equity |
|--|-----------------------|----------------------------------|---|----------------------|-------------------|-----------------------------|----------------------------------|
| | Common Stock | Additional Paid-in Capital | Accumulated Other Comprehensive Loss | Retained Earnings | Treasury Stock | Noncontrolling Interests | |
| Balance as of December 31, 2017 | \$2 | \$ 2,833 | \$ (1) | \$ 2,256 | \$(2,341) | \$ — | \$ 2,749 |
| Net income (loss) | — | — | — | 616 | — | (6) | 610 |
| Unrealized loss on available-for-sale debt securities, net of deferred tax | — | — | (1) | — | — | — | (1) |
| Issuance of common stock, net of repurchases | — | 45 | — | — | (121) | — | (76) |
| Share-based compensation | — | 145 | — | — | — | — | 145 |
| Adjustment to the carrying value of redeemable noncontrolling interests | — | (21) | — | — | — | — | (21) |
| Issuance of convertible senior notes, net of tax impact | — | 93 | — | — | — | — | 93 |
| Contributions from noncontrolling interest owners | — | — | — | — | — | 92 | 92 |
| Issuance of subsidiary shares | — | — | — | — | — | 5 | 5 |
| Vesting of redeemable equity awards | — | (2) | — | — | — | — | (2) |
| Balance as of September 30, 2018 | \$2 | \$ 3,093 | \$ (2) | \$ 2,872 | \$(2,462) | \$ 91 | \$ 3,594 |

See accompanying notes to condensed consolidated financial statements.

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ILLUMINA, INC.
 CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS
 (Unaudited)
 (In millions)

| | Nine Months Ended | |
|---|-----------------------|--------------------|
| | September 30, 2018 | October 1, 2017 |
| Cash flows from operating activities: | | |
| Consolidated net income | \$585 | \$ 621 |
| Adjustments to reconcile net income to net cash provided by operating activities: | | |
| Gain on deconsolidation of GRAIL | — | (453) |
| Depreciation expense | 100 | 81 |
| Amortization of intangible assets | 29 | 36 |
| Share-based compensation expense | 146 | 123 |
| Accretion of debt discount | 26 | 23 |
| Deferred income taxes | (32) | 53 |
| Impairment of intangible assets | — | 23 |
| Other | — | (2) |
| Changes in operating assets and liabilities: | | |
| Accounts receivable | (24) | 1 |
| Inventory | (40) | (27) |
| Prepaid expenses and other current assets | 7 | 14 |
| Other assets | (9) | (3) |
| Accounts payable | 13 | 12 |
| Accrued liabilities | 45 | 56 |
| Other long-term liabilities | (4) | 23 |
| Net cash provided by operating activities | 842 | 581 |
| Cash flows from investing activities: | | |
| Purchases of available-for-sale securities | (2,352) | (359) |
| Sales of available-for-sale securities | 520 | 314 |
| Maturities of available-for-sale securities | 710 | 181 |
| Net cash paid for acquisitions | (100) | — |
| Proceeds from sale of GRAIL securities | — | 278 |
| Deconsolidation of GRAIL cash | — | (52) |
| Net purchases of strategic investments | (12) | (25) |
| Purchases of property and equipment | (231) | (234) |
| Cash paid for intangible assets | — | (2) |
| Net cash (used in) provided by investing activities | (1,465) | 101 |
| Cash flows from financing activities: | | |
| Payments on financing obligations | (3) | (7) |
| Payments on acquisition related contingent consideration liability | — | (3) |
| Proceeds from issuance of debt, net | 735 | 5 |
| Common stock repurchases | (103) | (176) |
| Taxes paid related to net share settlement of equity awards | (18) | (28) |
| Proceeds from issuance of common stock | 45 | 63 |
| Contributions from noncontrolling interest owners | 92 | 79 |
| Net cash provided by (used in) financing activities | 748 | (67) |
| Effect of exchange rate changes on cash and cash equivalents | (4) | 4 |

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| | | |
|--|---------|----------|
| Net increase in cash and cash equivalents | 121 | 619 |
| Cash and cash equivalents at beginning of period | 1,225 | 735 |
| Cash and cash equivalents at end of period | \$1,346 | \$ 1,354 |

See accompanying notes to condensed consolidated financial statements.

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Illumina, Inc.

Notes to Condensed Consolidated Financial Statements
(Unaudited)

Unless the context requires otherwise, references in this report to “Illumina,” “we,” “us,” the “Company,” and “our” refer to Illumina, Inc. and its consolidated subsidiaries.

1. Basis of Presentation and Summary of Significant Accounting Policies

Basis of Presentation

The accompanying unaudited condensed consolidated financial statements have been prepared in accordance with U.S. generally accepted accounting principles (GAAP) for interim financial information and the instructions to Form 10-Q and Article 10 of Regulation S-X. Accordingly, they do not include all of the information and footnotes required by GAAP for complete financial statements. Interim financial results are not necessarily indicative of results anticipated for the full year. These unaudited condensed consolidated financial statements should be read in conjunction with the audited consolidated financial statements and footnotes included in the Annual Report on Form 10-K for the fiscal year ended December 31, 2017, from which the prior year balance sheet information herein was derived. The preparation of financial statements requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenue, and expense, and related disclosure of contingent assets and liabilities. Actual results could differ from those estimates.

The unaudited condensed consolidated financial statements include our accounts, our wholly-owned subsidiaries, majority-owned or controlled companies, and variable interest entities (VIEs) for which we are the primary beneficiary. All intercompany transactions and balances have been eliminated in consolidation. In management’s opinion, the accompanying financial statements reflect all adjustments, consisting of normal recurring adjustments, considered necessary for a fair presentation of the results for the interim periods presented.

We evaluate our ownership, contractual, and other interests in entities that are not wholly-owned to determine if these entities are VIEs, and, if so, whether we are the primary beneficiary of the VIE. In determining whether we are the primary beneficiary of a VIE and therefore required to consolidate the VIE, a qualitative approach is applied that determines whether we have both (1) the power to direct the activities of the VIE that most significantly impact the VIE’s economic performance and (2) the obligation to absorb losses of, or the rights to receive benefits from, the VIE that could potentially be significant to that VIE. We continuously assess whether we are the primary beneficiary of a VIE, as changes to existing relationships or future transactions may result in the consolidation or deconsolidation of such VIE. During the nine months ended September 30, 2018, our consolidated VIE, Helix, received additional cash contributions from us and third-party investors in exchange for voting equity interests in Helix. Therefore, we reassessed and concluded that Helix continued to be a variable interest entity and that we remained the primary beneficiary. During the periods presented, we have not provided any other financial or other support to our VIEs that we were not contractually required to provide.

The equity method is used to account for investments in which we have the ability to exercise significant influence, but not control, over the investee. Such investments are recorded within other assets, and the share of net income or losses of equity investments is recognized on a one quarter lag in other (expense) income, net.

Redeemable Noncontrolling Interests

Noncontrolling interests represent the portion of equity (net assets) in Helix, our consolidated but not wholly-owned entity, that is neither directly nor indirectly attributable to us. Noncontrolling interests with embedded contingent redemption features, such as put rights, that are not solely within our control are considered redeemable

noncontrolling interests. Redeemable noncontrolling interests are presented outside of stockholders' equity on the condensed consolidated balance sheets.

Fiscal Year

Our fiscal year is the 52 or 53 weeks ending the Sunday closest to December 31, with quarters of 13 or 14 weeks ending the Sunday closest to March 31, June 30, September 30, and December 31. The three and nine months ended September 30, 2018 and October 1, 2017 were both 13 and 39 weeks, respectively.

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Reclassifications

Certain prior period amounts have been reclassified to conform to the current period presentation.

Significant Accounting Policies

During the three and nine months ended September 30, 2018, there have been no changes to our significant accounting policies as described in our Annual Report on Form 10-K for the fiscal year ended December 31, 2017, except as described below.

Recently Adopted Accounting Pronouncements

In May 2014, the FASB issued ASU 2014-09, Revenue from Contracts with Customers (Topic 606). The new standard is based on the principle that revenue should be recognized in an amount that reflects the consideration to which we expect to be entitled in exchange for the transfer of promised goods or services. We adopted Topic 606 using the modified retrospective transition method. The cumulative effect of applying the new revenue standard to all incomplete contracts as of January 1, 2018 was not material and, therefore, did not result in an adjustment to retained earnings. There was no material difference to the condensed consolidated financial statements for the three and nine months ended September 30, 2018 due to the adoption of Topic 606.

In January 2016, the FASB issued ASU 2016-01, Financial Instruments - Overall (Subtopic 825-10), which requires equity investments (other than those accounted for under the equity method or those that result in consolidation) to be measured at fair value, with changes in fair value recognized in net income. This standard was effective for us beginning in the first quarter of 2018. Based on our elections, our strategic equity investments that do not have readily determinable fair values and do not qualify for the net asset value practical expedient for estimating fair value are measured at cost, less any impairments, plus or minus changes resulting from observable price changes in orderly transactions for identifiable or similar investments of the same issuer. The measurement alternative was applied prospectively and did not result in an adjustment to retained earnings.

Recently Issued Accounting Pronouncements

In February 2016, the FASB issued Accounting Standards Update (ASU) 2016-02, Leases (Topic 842). The new standard requires lessees to recognize most leases on their balance sheet as lease liabilities with corresponding right-of-use assets. ASU 2016-02 is effective for us beginning in the first quarter of 2019 and will be adopted on a modified retrospective basis by recognizing a cumulative-effect adjustment to the opening balance of retained earnings in the period of adoption; we will continue to report comparative periods under the current lease accounting standard. We are currently designing and implementing changes to our systems, processes, policies, and controls for lease accounting, including implementation of a third-party software application, to help us comply with the standard. We expect to elect the standard's package of practical expedients on adoption, which allows us to carry forward our historical assessment of whether existing agreements contain a lease and the classification of our existing lease agreements. We do not expect to elect the standard's available hindsight practical expedient on adoption. While we continue to review our existing lease agreements and assess the effects of adoption, we believe the new standard will have a material effect on our consolidated financial statements and disclosures. We expect substantially all of our real-estate operating lease commitments will be recognized as lease liabilities with corresponding right-of-use assets, resulting in a significant increase in the assets and liabilities on the consolidated balance sheet upon adoption. We are currently evaluating the impact of Topic 842 on the consolidated financial statements as it relates to other aspects of our business.

In June 2016, the FASB issued Accounting Standards Update (ASU) 2016-13, Financial Instruments - Credit Losses: Measurement of Credit Losses on Financial Instruments, which amends the impairment model by requiring entities to use a forward-looking approach based on expected losses to estimate credit losses on certain types of financial instruments, including trade receivables and available-for-sale debt securities. The standard is effective for us beginning in the first quarter of 2020, with early adoption permitted. We are currently evaluating the expected impact of ASU 2016-13 on our consolidated financial statements.

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Revenue

Our revenue is generated primarily from the sale of products and services. Product revenue primarily consists of sales of instruments and consumables used in genetic analysis. Service and other revenue primarily consists of revenue generated from genotyping and sequencing services and instrument service contracts.

We recognize revenue when control of our products and services is transferred to our customers in an amount that reflects the consideration we expect to receive from our customers in exchange for those products and services. This process involves identifying the contract with a customer, determining the performance obligations in the contract, determining the contract price, allocating the contract price to the distinct performance obligations in the contract, and recognizing revenue when the performance obligations have been satisfied. A performance obligation is considered distinct from other obligations in a contract when it provides a benefit to the customer either on its own or together with other resources that are readily available to the customer and is separately identified in the contract. We consider a performance obligation satisfied once we have transferred control of a good or service to the customer, meaning the customer has the ability to use and obtain the benefit of the good or service. We recognize revenue for satisfied performance obligations only when we determine there are no uncertainties regarding payment terms or transfer of control.

Revenue from product sales is recognized generally upon delivery to the end customer, which is when control of the product is deemed to be transferred. Invoicing typically occurs upon shipment; the term between invoicing and when payment is due is not significant. In instances where right of payment or transfer of title is contingent upon the customer's acceptance of the product, revenue is deferred until all acceptance criteria have been met. Revenue from instrument service contracts is recognized as the services are rendered, typically evenly over the contract term. Revenue from genotyping and sequencing services is recognized when earned, which is generally at the time the genotyping or sequencing analysis data is made available to the customer or agreed-upon milestones are reached.

Revenue is recorded net of discounts, distributor commissions, and sales taxes collected on behalf of governmental authorities. Employee sales commissions are recorded as selling, general and administrative expenses when incurred as the amortization period for such costs, if capitalized, would have been one year or less.

We regularly enter into contracts with multiple performance obligations. Such obligations are generally satisfied within a short time frame, approximately three to six months, after the contract execution date. Revenue recognition for contracts with multiple deliverables is based on the separate, distinct performance obligations within the contract. We do not disclose the value of unsatisfied performance obligations for (i) contracts with an original expected length of one year or less, and (ii) contracts for which we recognize revenue at the amount to which we have the right to invoice for services performed.

The contract price is allocated to each performance obligation in proportion to its standalone selling price. We determine our best estimate of standalone selling price using average selling prices over a rolling 12-month period coupled with an assessment of current market conditions. If the product or service has no history of sales or if the sales volume is not sufficient, we rely upon prices set by our pricing committee, adjusted for applicable discounts.

Contract liabilities, which consist of deferred revenue and customer deposits, as of September 30, 2018 and December 31, 2017 were \$181 million, of which the short-term portions of \$154 million and \$150 million, respectively, were recorded in accrued liabilities and the remaining long-term portions were recorded in other long-term liabilities. Revenue recorded in the three and nine months ended September 30, 2018 included \$26 million and \$128 million of previously deferred revenue that was included in contract liabilities as of December 31, 2017. Contract assets as of September 30, 2018 and December 31, 2017 were not material.

In certain markets, products and services are sold to customers through distributors. In most sales through distributors, the product is delivered directly to customers. The terms of sales transactions through distributors are consistent with the terms of direct sales to customers.

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The following tables represent revenue by source (in millions):

| | Three Months Ended | | | | | |
|---------------------------|-----------------------|------------|---------|--------------------|------------|---------|
| | September 30, 2018 | | | October 1, 2017 | | |
| | Sequencing | Microarray | Total | Sequencing | Microarray | Total |
| Consumables | \$467 | \$ 83 | \$550 | \$380 | \$ 71 | \$451 |
| Instruments | 138 | 16 | 154 | 128 | 12 | 140 |
| Other product | 5 | 1 | 6 | 5 | — | 5 |
| Total product revenue | 610 | 100 | 710 | 513 | 83 | 596 |
| Service and other revenue | 109 | 34 | 143 | 80 | 38 | 118 |
| Total revenue | \$719 | \$ 134 | \$853 | \$593 | \$ 121 | \$714 |
| | Nine Months Ended | | | | | |
| | September 30, 2018 | | | October 1, 2017 | | |
| | Sequencing | Microarray | Total | Sequencing | Microarray | Total |
| Consumables | \$1,340 | \$ 255 | \$1,595 | \$1,036 | \$ 204 | \$1,240 |
| Instruments | 372 | 26 | 398 | 353 | 23 | 376 |
| Other product | 16 | 2 | 18 | 14 | 1 | 15 |
| Total product revenue | 1,728 | 283 | 2,011 | 1,403 | 228 | 1,631 |
| Service and other revenue | 312 | 143 | 455 | 235 | 109 | 344 |
| Total revenue | \$2,040 | \$ 426 | \$2,466 | \$1,638 | \$ 337 | \$1,975 |

Revenue related to our Consolidated VIEs is included in sequencing services and other revenue.

The following table represents revenue by geographic area, based on region of destination (in millions):

| | Three Months | | Nine Months | |
|---------------------------------|-----------------------|--------------------|-----------------------|--------------------|
| | Ended | | Ended | |
| | September 30, 2018 | October 1, 2017 | September 30, 2018 | October 1, 2017 |
| Americas (1) | \$ 474 | \$ 417 | \$1,380 | \$ 1,153 |
| Europe, Middle East, and Africa | 219 | 165 | 615 | 443 |
| Greater China (2) | 102 | 87 | 288 | 221 |
| Asia-Pacific | 58 | 45 | 183 | 158 |
| Total revenue | \$ 853 | \$ 714 | \$2,466 | \$ 1,975 |

(1) Revenue for the Americas region included United States revenue of \$455 million and \$1,316 million, respectively, for the three and nine months ended September 30, 2018 and \$397 million and \$1,096 million, respectively, for the three and nine months ended October 1, 2017.

(2) Revenue for the Greater China region, which consists of China, Taiwan, and Hong Kong, is reported separately from the Asia-Pacific region.

Earnings per Share

Basic earnings per share attributable to Illumina stockholders is computed based on the weighted average number of common shares outstanding during the period. Diluted earnings per share attributable to Illumina stockholders is computed based on the sum of the weighted average number of common shares and potentially dilutive common shares outstanding during the period. Per-share earnings of our VIEs are included in the consolidated basic and diluted earnings per share computations based on our share of the VIE's securities.

Potentially dilutive common shares consist of shares issuable under convertible senior notes and equity awards. Convertible senior notes have a dilutive impact when the average market price of our common stock exceeds the applicable conversion price of the respective notes. Potentially dilutive common shares from equity awards are determined using the

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average share price for each period under the treasury stock method. In addition, proceeds from exercise of equity awards and the average amount of unrecognized compensation expense for equity awards are assumed to be used to repurchase shares.

The following is the calculation of weighted average shares used to calculate basic and diluted earnings per share (in millions):

| | Three Months Ended | | Nine Months Ended | |
|--|--------------------|-----------------|--------------------|-----------------|
| | September 30, 2018 | October 1, 2017 | September 30, 2018 | October 1, 2017 |
| Weighted average shares outstanding | 147 | 146 | 147 | 146 |
| Effect of potentially dilutive common shares from: | | | | |
| Convertible senior notes | 1 | — | — | — |
| Equity awards | 1 | 2 | 1 | 2 |
| Weighted average shares used in calculating diluted earnings per share | 149 | 148 | 148 | 148 |

2. Balance Sheet Account Details

Short-Term Investments

The following is a summary of short-term investments (in millions):

| | September 30, 2018 | | | December 31, 2017 | | |
|--|--------------------|-------------------------|----------------------|-------------------|-------------------------|----------------------|
| | Amortized Cost | Gross Unrealized Losses | Estimated Fair Value | Amortized Cost | Gross Unrealized Losses | Estimated Fair Value |
| Available-for-sale debt securities: | | | | | | |
| Debt securities in government sponsored entities | \$21 | \$ — | \$ 21 | \$67 | \$ — | \$ 67 |
| Corporate debt securities | 1,063 | (3) | 1,060 | 423 | (2) | 421 |
| U.S. Treasury securities | 964 | (2) | 962 | 433 | (1) | 432 |
| Total available-for-sale debt securities | \$2,048 | \$ (5) | \$ 2,043 | \$923 | \$ (3) | \$ 920 |

Realized gains and losses are determined based on the specific identification method and are reported in interest income.

Contractual maturities of available-for-sale debt securities as of September 30, 2018 were as follows (in millions):

| | Estimated Fair Value |
|---------------------------------|----------------------|
| Due within one year | \$ 1,253 |
| After one but within five years | 790 |
| Total | \$ 2,043 |

We have the ability, if necessary, to liquidate any of our cash equivalents and short-term investments to meet our liquidity needs in the next 12 months. Accordingly, those investments with contractual maturities greater than one year from the date of purchase are classified as short-term on the accompanying condensed consolidated balance sheets.

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Strategic Investments

The carrying amounts of our strategic equity investments without readily determinable fair values are initially measured at cost and are remeasured for impairment and observable price changes in orderly transactions for identifiable or similar investments of the same issuer.

As of September 30, 2018 and December 31, 2017, the aggregate carrying amounts of our strategic equity investments without readily determinable fair values were \$249 million and \$250 million, respectively, included in other assets. Revenue recognized from transactions with such companies was \$32 million and \$104 million, respectively, for the three and nine months ended September 30, 2018 and \$38 million and \$96 million, respectively, for the three and nine months ended October 1, 2017.

We invest in a venture capital investment fund (the Fund) with a capital commitment of \$100 million that is callable over ten years, of which \$73 million remained as of September 30, 2018. Our investment in the Fund is accounted for as an equity-method investment. The carrying amounts of the Fund included in other assets were \$25 million and \$16 million as of September 30, 2018 and December 31, 2017, respectively.

Inventory

Inventory consisted of the following (in millions):

| | September 30, December 31, | |
|-----------------|----------------------------|--------|
| | 2018 | 2017 |
| Raw materials | \$ 98 | \$ 93 |
| Work in process | 224 | 188 |
| Finished goods | 52 | 52 |
| Total inventory | \$ 374 | \$ 333 |

Property and Equipment

Property and equipment, net consisted of the following (in millions):

| | September 30, December 31, | |
|-------------------------------------|----------------------------|--------|
| | 2018 | 2017 |
| Leasehold improvements | \$ 505 | \$ 331 |
| Machinery and equipment | 352 | 316 |
| Computer hardware and software | 207 | 185 |
| Furniture and fixtures | 43 | 34 |
| Buildings | 279 | 155 |
| Construction in progress | 156 | 326 |
| Total property and equipment, gross | 1,542 | 1,347 |
| Accumulated depreciation | (482 |) (416 |
| Total property and equipment, net | \$ 1,060 | \$ 931 |

Property and equipment, net included non-cash expenditures of \$38 million and \$94 million for the nine months ended September 30, 2018 and October 1, 2017, respectively, which were excluded from the condensed consolidated statements of cash flows. Such non-cash expenditures included \$18 million and \$60 million recorded under build-to-suit lease accounting for the nine months ended September 30, 2018 and October 1, 2017, respectively.

Intangible Assets and Goodwill

On May 14, 2018, we acquired Edico Genome, a provider of data analysis acceleration solutions for next-generation sequencing (NGS) for total cash consideration of \$100 million, net of cash acquired. As a result of this transaction, we recorded \$56 million as goodwill. In addition, we recorded developed technology of \$45 million and a trade name of \$1 million, with useful lives of 10 and 3 years, respectively.

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We test the carrying value of goodwill in accordance with accounting rules on impairment of goodwill, which require us to estimate the fair value of each reporting unit annually, or when impairment indicators exist, and compare such amounts to their respective carrying values to determine if an impairment is required. We performed the annual assessment for goodwill impairment in the second quarter of 2018, noting no impairment.

Changes to goodwill during the nine months ended September 30, 2018 were as follows (in millions):

| | Goodwill |
|----------------------------------|----------|
| Balance as of December 31, 2017 | \$ 771 |
| Current period acquisitions | 60 |
| Balance as of September 30, 2018 | \$ 831 |

We perform regular reviews to determine if any event has occurred that may indicate our identifiable intangible assets are potentially impaired. During the nine months ended October 1, 2017, we performed a recoverability test when the planned use of a finite-lived acquired intangible asset changed, resulting in an impairment charge of \$18 million recorded in cost of product revenue. Also during the nine months ended October 1, 2017, we recorded a \$5 million impairment charge in research and development related to an in-process research and development project that was determined to have no future alternative use.

Derivatives

We are exposed to foreign exchange rate risks in the normal course of business. We enter into foreign exchange contracts to manage foreign currency risks related to monetary assets and liabilities that are denominated in currencies other than the U.S. dollar. These foreign exchange contracts are carried at fair value in other current assets or accrued liabilities and are not designated as hedging instruments. Changes in the value of derivatives are recognized in other (expense) income, net, along with the remeasurement gain or loss on the foreign currency denominated assets or liabilities.

As of September 30, 2018, we had foreign exchange forward contracts in place to hedge exposures in the euro, Japanese yen, Australian dollar, and Canadian dollar. As of September 30, 2018 and December 31, 2017, the total notional amounts of outstanding forward contracts in place for foreign currency purchases were \$99 million and \$88 million, respectively.

Accrued Liabilities

Accrued liabilities consisted of the following (in millions):

| | September 30, 2018 | December 31, 2017 |
|---------------------------------------|-----------------------|----------------------|
| Contract liabilities, current portion | \$ 154 | \$ 150 |
| Accrued compensation expenses | 154 | 177 |
| Accrued taxes payable | 94 | 50 |
| Other | 48 | 55 |
| Total accrued liabilities | \$ 450 | \$ 432 |

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Warranties

We generally provide a one-year warranty on instruments. Additionally, we provide a warranty on consumables through the expiration date, which generally ranges from six to twelve months after the manufacture date. At the time revenue is recognized, an accrual is established for estimated warranty expenses based on historical experience as well as anticipated product performance. We periodically review the warranty reserve for adequacy and adjust the warranty accrual, if necessary, based on actual experience and estimated costs to be incurred. Warranty expense is recorded as a component of cost of product revenue.

Changes in the reserve for product warranties during the three and nine months ended September 30, 2018 and October 1, 2017 were as follows (in millions):

| | Three Months Ended | | Nine Months Ended | |
|--|-----------------------|--------------------|-----------------------|--------------------|
| | September 30, 2018 | October 1, 2017 | September 30, 2018 | October 1, 2017 |
| Balance at beginning of period | \$ 15 | \$ 14 | \$ 17 | \$ 13 |
| Additions charged to cost of product revenue | 8 | 7 | 20 | 18 |
| Repairs and replacements | (6) | (5) | (20) | (15) |
| Balance at end of period | \$ 17 | \$ 16 | \$ 17 | \$ 16 |

Investments in Consolidated VIEs

Helix Holdings I, LLC

In July 2015, we obtained a 50% voting equity ownership interest in Helix Holdings I, LLC (Helix), a limited liability company formed with unrelated third-party investors to pursue the development and commercialization of a marketplace for consumer genomics. We determined that Helix is a VIE as the holders of the at-risk equity investments as a group lack the power to direct the activities of Helix that most significantly impact Helix's economic performance. Additionally, we determined that we have (a) unilateral power over one of the activities that most significantly impacts the economic performance of Helix through its contractual arrangements and no one individual party has unilateral power over the remaining significant activities of Helix and (b) the obligation to absorb losses of and the right to receive benefits from Helix that are potentially significant to Helix. As a result, we are deemed to be the primary beneficiary of Helix and are required to consolidate Helix.

As contractually committed, in July 2015, we contributed certain perpetual licenses, instruments, intangibles, initial laboratory setup, and discounted supply terms in exchange for voting equity interests in Helix. Such contributions were recorded at their historical basis as they remained within our control. Helix is financed through cash contributions made by us and the third-party investors in exchange for voting equity interests in Helix. During the nine months ended September 30, 2018, we made additional investments of \$100 million in exchange for voting equity interests in Helix. As of September 30, 2018, the noncontrolling shareholders and Illumina each held 50% of Helix's outstanding voting equity interests.

Certain noncontrolling Helix investors may require us to redeem certain noncontrolling interests in cash at the then approximate fair market value. Such redemption right is exercisable at the option of certain noncontrolling interest holders after January 1, 2021, provided that a bona fide pursuit of the sale of Helix has occurred and an initial public offering of Helix has not been completed. As the contingent redemption is outside of our control, the redeemable noncontrolling interests in Helix are classified outside of stockholders' equity on the accompanying condensed consolidated balance sheets. The balance of the redeemable noncontrolling interests is reported at the greater of its carrying value after receiving its allocation of Helix's profits and losses or its estimated redemption fair value at each

reporting date. The fair value of the redeemable noncontrolling interests is considered a Level 3 instrument.

As of September 30, 2018, the accompanying condensed consolidated balance sheet included \$149 million of cash, cash equivalents, and short-term investments attributable to Helix that will be used to settle its respective obligations and will not be available to settle obligations of Illumina. The remaining assets and liabilities of Helix were not significant to our financial position as of September 30, 2018. Helix had an immaterial impact on our condensed consolidated statements of income and cash flows for the three and nine months ended September 30, 2018.

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GRAIL, Inc.

In 2016, we obtained a majority equity ownership interest in GRAIL, a company formed with unrelated third-party investors to develop a blood test for early-stage cancer detection. At that time, we determined that GRAIL was a VIE as the entity lacked sufficient equity to finance its activities without additional support. Additionally, we determined that we were the primary beneficiary of GRAIL and were required to consolidate GRAIL. On February 28, 2017, GRAIL completed the initial close of its Series B preferred stock financing, we ceased to have a controlling financial interest in GRAIL, and our equity ownership was reduced from 52% to 19%. Additionally, our voting interest was reduced to 13% and we no longer had representation on GRAIL's board of directors. As a result, we deconsolidated GRAIL's financial statements effective February 28, 2017 and recorded a pretax gain on deconsolidation of \$453 million in other (expense) income, net. The operations of GRAIL from January 2, 2017 up to February 28, 2017, the date of deconsolidation, were included in the accompanying condensed consolidated statements of income for the nine months ended October 1, 2017. During this period, we absorbed approximately 50% of GRAIL's losses based upon our proportional ownership of GRAIL's common stock.

The carrying value of the investment recorded in other assets was \$189 million and \$185 million as of September 30, 2018 and December 31, 2017, respectively.

Redeemable Noncontrolling Interests

The activity of the redeemable noncontrolling interests during the nine months ended September 30, 2018 was as follows (in millions):

| | Redeemable Noncontrolling Interests |
|---|---|
| Balance as of December 31, 2017 | \$ 220 |
| Vesting of redeemable equity awards | 2 |
| Net loss attributable to noncontrolling interests | (25) |
| Adjustment up to the redemption value | 21 |
| Balance as of September 30, 2018 | \$ 218 |

3. Fair Value Measurements

The following table presents the hierarchy for assets and liabilities measured at fair value on a recurring basis as of September 30, 2018 and December 31, 2017 (in millions):

| | September 30, 2018 | | | | December 31, 2017 | | | |
|--|--------------------|---------|---------|------------|-------------------|---------|---------|----------|
| | Level 1 | Level 2 | Level 3 | Total | Level 1 | Level 2 | Level 3 | Total |
| Assets: | | | | | | | | |
| Money market funds (cash equivalents) | \$1,053 | \$— | \$— | \$—\$1,053 | \$957 | \$— | \$— | \$—\$957 |
| Debt securities in government-sponsored entities | — | 21 | — | 21 | — | 67 | — | 67 |
| Corporate debt securities | — | 1,060 | — | 1,060 | — | 421 | — | 421 |
| U.S. Treasury securities | 962 | — | — | 962 | 432 | — | — | 432 |
| Deferred compensation plan assets | — | 39 | — | 39 | — | 35 | — | 35 |
| Total assets measured at fair value | \$2,015 | \$1,120 | \$— | \$3,135 | \$1,389 | \$523 | \$— | \$1,912 |
| Liabilities: | | | | | | | | |
| Deferred compensation liability | \$— | \$37 | \$— | \$37 | \$— | \$33 | \$— | \$33 |

We hold available-for-sale securities that consist of highly-liquid, investment-grade debt securities. We consider information provided by our investment accounting and reporting service provider in the measurement of fair value of our debt securities. The investment service provider provides valuation information from an industry-recognized valuation service.

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Such valuations may be based on trade prices in active markets for identical assets or liabilities (Level 1 inputs) or valuation models using inputs that are observable either directly or indirectly (Level 2 inputs), such as quoted prices for similar assets or liabilities, yield curve, volatility factors, credit spreads, default rates, loss severity, current market and contractual prices for the underlying instruments or debt, broker and dealer quotes, as well as other relevant economic measures. Our deferred compensation plan assets consist primarily of investments in life insurance contracts carried at cash surrender value, which reflects the net asset value of the underlying publicly traded mutual funds. We perform control procedures to corroborate the fair value of our holdings, including comparing valuations obtained from our investment service provider to valuations reported by our asset custodians, validation of pricing sources and models, and review of key model inputs, if necessary.

4. Debt and Other Commitments

Summary of debt obligations

Debt obligations consisted of the following (dollars in millions):

| | September 30, 2018 | December 31, 2017 |
|---|-----------------------|----------------------|
| Principal amount of 2023 Notes outstanding | \$ 750 | \$ — |
| Principal amount of 2021 Notes outstanding | 517 | 517 |
| Principal amount of 2019 Notes outstanding | 633 | 633 |
| Unamortized discount of liability component of convertible senior notes | (190) | (75) |
| Net carrying amount of liability component of convertible senior notes | 1,710 | 1,075 |
| Obligations under financing leases | 254 | 113 |
| Other | 3 | 4 |
| Less: current portion | (1,107) | (10) |
| Long-term debt | \$ 860 | \$ 1,182 |
| Carrying value of equity component of convertible senior notes, net of debt issuance cost | \$ 287 | \$ 161 |
| Fair value of convertible senior notes outstanding (Level 2) | \$ 2,533 | \$ 1,305 |
| Weighted-average remaining amortization period of discount on the liability component of convertible senior notes | 4.1 years | 2.8 years |

Convertible Senior Notes

0% Convertible Senior Notes due 2023 (2023 Notes)

On August 21, 2018, we issued \$750 million aggregate principal amount of convertible senior notes due 2023 (2023 Notes). The net proceeds from the issuance, after deducting the offering expenses payable by us, were \$735 million. The 2023 Notes carry no coupon interest and mature on August 15, 2023.

The 2023 Notes will be convertible into cash, shares of our common stock or a combination of cash and shares of our common stock, at our election, based on an initial conversion rate, subject to adjustment, of 2.1845 shares of common stock per \$1,000 principal amount of notes (which represents an initial conversion price of approximately \$457.77 per share of common stock), only in the following circumstances: (1) during any calendar quarter commencing after the calendar quarter ending on September 30, 2018 (and only during such calendar quarter), if the last reported sale price of our common stock for at least 20 trading days (whether or not consecutive) during a period of 30 consecutive trading days ending on, and including, the last trading day of the immediately preceding calendar quarter is greater than or equal to 130% of the conversion price in effect on each applicable trading day; (2) during the five business day period after any 10 consecutive trading day period (the “measurement period”) in which the trading price per \$1,000 principal amount of 2023 Notes for each trading day of the measurement period was less than 98% of the product of

the last reported sale price of our common stock and the conversion rate on each such trading day; (3) if we call any or all of the notes for redemption, at any time prior to the close of business on the scheduled trading day immediately preceding the redemption date; or (4) upon the occurrence of specified corporate events described in the indenture. Regardless of the foregoing circumstances, the holders may convert their notes on or after May 15, 2023 until August 13, 2023.

It is our intent and policy to settle conversions, if any, through combination settlement; this involves repayment of an amount of cash equal to the principal amount and delivery of the excess of conversion value over the principal amount in shares

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of common stock. In general, the “principal amount” paid in cash upon settlement is the lesser of \$1,000 and the sum of the daily conversion values during a 20-day observation period. The daily conversion value is the product of the effective conversion rate (2.1845) and the daily volume weighted average price (VWAP) of our common stock divided by 20. The “share amount” is the cumulative “daily share amount” during the observation period, which is calculated by dividing the daily VWAP into the difference between the daily conversion value (i.e., conversion rate x daily VWAP) and \$1,000.

We may redeem for cash all or any portion of the 2023 Notes, at our option, on or after August 20, 2021 if the last reported sale price of our common stock has been at least 130% of the conversion price then in effect (currently \$595.10) for at least 20 trading days (whether or not consecutive) during any 30 consecutive trading day period (including the last trading day of such period) ending on, and including, the trading day immediately preceding the date on which we provide notice of redemption at a redemption price equal to 100% of the principal amount of the notes to be redeemed, plus any accrued and unpaid special interest to, but excluding, the redemption date.

The 2023 Notes are accounted for in accordance with authoritative guidance for convertible debt instruments that may be settled in cash upon conversion. The guidance requires the carrying amount of the liability component to be estimated by estimating the fair value of a similar liability that does not have an associated conversion feature. Because we have no outstanding non-convertible public debt, we determined that market-traded senior, unsecured corporate bonds represent a similar liability without a conversion option. Based on market data available for publicly traded, senior, unsecured corporate bonds issued by companies in our industry, and with similar maturities to the 2023 Notes, we estimated an implied interest rate of 3.7%, assuming no conversion option. Assumptions used in the estimate represent what market participants would use in pricing the liability component, including market interest rates, credit standing, and yield curves, all of which are defined as Level 2 observable inputs. The estimated implied interest rate was applied to the 2023 Notes, which resulted in a fair value of the liability component in aggregate of \$624 million upon issuance, calculated as the present value of implied future payments based on the \$750 million aggregate principal amount. The \$126 million difference (\$93 million, net of tax) between the aggregate principal amount of \$750 million and the estimated fair value of the liability component was recorded in additional paid-in capital as the 2023 Notes are not considered redeemable.

As a policy election under applicable guidance related to the calculation of diluted net income per share, we have elected the combination settlement method as our stated settlement policy and apply the treasury stock method in the calculation of the potential dilutive impact of the 2023 Notes on net income per share each period. The 2023 Notes were not convertible as of September 30, 2018 and had no dilutive impact during the three and nine months ended September 30, 2018. If the 2023 Notes were converted as of September 30, 2018, the if-converted value would not exceed the principal amount.

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0% Convertible Senior Notes due 2019 (2019 Notes) and 0.5% Convertible Senior Notes due 2021 (2021 Notes)

In June 2014, we issued \$633 million aggregate principal amount of 2019 Notes and \$517 million aggregate principal amount of 2021 Notes. We used the net proceeds plus cash on hand to repurchase outstanding debt. The 2019 and 2021 Notes mature on June 15, 2019 and June 15, 2021, respectively, and the implied estimated effective rates of the liability components of the Notes were 2.9% and 3.5%, respectively, assuming no conversion.

Both the 2019 and 2021 Notes will be convertible into cash, shares of common stock, or a combination of cash and shares of common stock, at our election, based on an initial conversion rate, subject to adjustment, of 3.9318 shares per \$1,000 principal amount of the notes (which represents an initial conversion price of approximately \$254.34 per share), only in the following circumstances and to the following extent: (1) during the five business-day period after any 10 consecutive trading day period (the measurement period) in which the trading price per 2019 and 2021 Notes for each day of such measurement period was less than 98% of the product of the last reported sale price of our common stock and the conversion rate on each such day; (2) during any calendar quarter (and only during that quarter) after the calendar quarter ending September 30, 2014, if the last reported sale price of our common stock for 20 or more trading days in the period of 30 consecutive trading days ending on the last trading day of the immediately preceding calendar quarter exceeds 130% of the applicable conversion price in effect on the last trading day of the immediately preceding calendar quarter; (3) upon the occurrence of specified events described in the indenture for the 2019 and 2021 Notes; and (4) at any time on or after March 15, 2019 for the 2019 Notes, or March 15, 2021 for the 2021 Notes, through the second scheduled trading day immediately preceding the maturity date.

During the three months ended September 30, 2018, the market price of our common stock met the stock trading price conversion requirement of \$330.64 and the 2019 and 2021 Notes became convertible on October 1, 2018 and continue to be convertible through December 31, 2018. The potential dilutive impact of the 2019 and 2021 notes has been included in our calculation of diluted earnings per share for the three and nine months ended September 30, 2018. If the 2019 and 2021 Notes were converted as of September 30, 2018, the if-converted value would exceed the principal amount by \$452 million. During the nine months ended September 30, 2018, the carrying values of the 2019 and 2021 Notes were reclassified to short-term as they are convertible within twelve months of the balance sheet date.

Build-to-suit leases

We evaluate whether we are the accounting owner of leased assets during the construction period when we are involved in the construction of leased assets. As of September 30, 2018, we were considered the owner of a construction project for accounting purposes only under build-to-suit lease accounting due to certain indemnification obligations related to the construction. As of September 30, 2018, and December 31, 2017, we recorded \$22 million and \$144 million, respectively, in project construction costs paid or reimbursed by the landlord as construction in progress and a corresponding build-to-suit lease liability.

During the nine months ended September 30, 2018, construction of a build-to-suit property was completed. We concluded we did not qualify for sale-leaseback treatment and the lease is accounted for as a financing obligation. Accordingly, \$142 million of construction in progress and build-to-suit lease liability were reclassified to building asset and obligations under financing leases, respectively.

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5. Share-based Compensation Expense

Share-based compensation expense reported in our statements of income was as follows (in millions):

| | Three Months | | Nine Months | |
|--|---------------|------------|---------------|------------|
| | Ended | | Ended | |
| | September 30, | October 1, | September 30, | October 1, |
| | 2018 | 2017 | 2018 | 2017 |
| Cost of product revenue | \$ 4 | \$ 3 | \$ 12 | \$ 9 |
| Cost of service and other revenue | 1 | 1 | 3 | 2 |
| Research and development | 15 | 12 | 45 | 38 |
| Selling, general and administrative | 28 | 18 | 86 | 74 |
| Share-based compensation expense before taxes | 48 | 34 | 146 | 123 |
| Related income tax benefits | (8) | (11) | (29) | (34) |
| Share-based compensation expense, net of taxes | \$ 40 | \$ 23 | \$ 117 | \$ 89 |

The assumptions used for the specified reporting periods and the resulting estimates of weighted-average fair value per share for stock purchased under the Employee Stock Purchase Plan (ESPP) during the nine months ended September 30, 2018 were as follows:

| | |
|---------------------------------------|--|
| | Employee Stock Purchase Rights 1.22% |
| Risk-free interest rate | - 2.45% |
| Expected volatility | 29% - 39% |
| Expected term | 0.5 - 1.0 year |
| Expected dividends | 0 % |
| Weighted-average fair value per share | \$61.59 |

As of September 30, 2018, approximately \$293 million of unrecognized compensation cost related to restricted stock and ESPP shares granted to date was expected to be recognized over a weighted-average period of approximately 2.1 years.

6. Stockholders' Equity

As of September 30, 2018, approximately 5.5 million shares remained available for future grants under the 2015 Stock Plan.

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Restricted Stock

Restricted stock activity and related information for the nine months ended September 30, 2018 was as follows (units in thousands):

| | Restricted Stock Units (RSU) | Performance Stock Units (PSU)(1) | Weighted-Average Grant-Date Fair Value per Share | |
|-----------------------------------|---------------------------------------|--|--|-----------|
| | | | RSU | PSU |
| Outstanding at December 31, 2017 | 2,085 | 542 | \$ 172.92 | \$ 166.15 |
| Awarded | 80 | 211 | \$ 272.83 | \$ 177.93 |
| Vested | (139) | — | \$ 162.89 | — |
| Cancelled | (155) | (30) | \$ 171.35 | \$ 162.54 |
| Outstanding at September 30, 2018 | 1,871 | 723 | \$ 178.07 | \$ 169.73 |

(1) The number of units reflect the estimated number of shares to be issued at the end of the performance period.

Stock Options

Stock option activity during the nine months ended September 30, 2018 was as follows:

| | Options (in thousands) | Weighted-Average Exercise Price |
|---|------------------------------|------------------------------------|
| | | |
| Exercised | (101) | \$ 35.32 |
| Outstanding and exercisable at September 30, 2018 | 221 | \$ 52.22 |

ESPP

The price at which common stock is purchased under the ESPP is equal to 85% of the fair market value of the common stock on the first day of the offering period or purchase date, whichever is lower. During the nine months ended September 30, 2018, approximately 0.3 million shares were issued under the ESPP. As of September 30, 2018, there were approximately 13.7 million shares available for issuance under the ESPP.

Share Repurchases

On July 28, 2016, our Board of Directors authorized a share repurchase program, which superseded all prior and available repurchase authorizations, to repurchase \$250 million of outstanding common stock. During the year ended December 31, 2017, we repurchased 0.6 million shares for \$101 million, completing the share repurchase program.

On May 4, 2017, our Board of Directors authorized a share repurchase program to repurchase \$250 million of outstanding common stock. During the year ended December 31, 2017, we repurchased 0.8 million shares for \$150 million from this program.

On May 1, 2018, our Board of Directors authorized an additional share repurchase program to repurchase \$150 million of outstanding common stock. The repurchases may be completed under a 10b5-1 plan or at management's discretion. During the three months ended September 30, 2018, we repurchased 0.3 million shares for \$103 million concurrently with the offering of our 2023 Notes. Authorizations to repurchase \$147 million of our common stock remained available as of September 30, 2018.

7. Income Taxes

Our effective tax rate may vary from the U.S. federal statutory tax rate due to the change in the mix of earnings in tax jurisdictions with different statutory rates, benefits related to tax credits, and the tax impact of non-deductible expenses and other permanent differences between income before income taxes and taxable income. The effective tax rates for the three and nine months ended September 30, 2018 were 19.0% and 14.6%, respectively. For the three and nine months ended September 30, 2018, the variance from the U.S. federal statutory tax rate of 21% was primarily attributable to the mix of

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earnings in jurisdictions with lower statutory tax rates than the U.S. federal statutory tax rate, such as in Singapore and the United Kingdom, offset partially by the discrete tax expense associated with updating prior year estimates of the impact of U.S. Tax Reform. For the nine months ended September 30, 2018, the decrease from the federal statutory rate was also attributable to the discrete tax benefit associated with the recognition of prior year losses from our investment in Helix.

We continue to evaluate the impacts of U.S. Tax Reform as we interpret the legislation, including the newly-enacted global intangible low-taxed income (GILTI) provisions which subject our foreign earnings to a minimum level of tax. Because of the complexities of the new legislation, we have not yet elected an accounting policy for GILTI and, therefore, have only included GILTI related to current year operations in our estimated provision for income taxes. Recent FASB guidance indicates that accounting for GILTI either as part of deferred taxes or as a period cost is acceptable. Once further information is gathered and interpretation and analysis of the tax legislation evolves, we will make an appropriate accounting method election.

8. Legal Proceedings

We are involved in various lawsuits and claims arising in the ordinary course of business, including actions with respect to intellectual property, employment, and contractual matters. In connection with these matters, we assess, on a regular basis, the probability and range of possible loss based on the developments in these matters. A liability is recorded in the financial statements if it is believed to be probable that a loss has been incurred and the amount of the loss can be reasonably estimated. Because litigation is inherently unpredictable and unfavorable results could occur, assessing contingencies is highly subjective and requires judgments about future events. We regularly review outstanding legal matters to determine the adequacy of the liabilities accrued and related disclosures. The amount of ultimate loss may differ from these estimates. Each matter presents its own unique circumstances, and prior litigation does not necessarily provide a reliable basis on which to predict the outcome, or range of outcomes, in any individual proceeding. Because of the uncertainties related to the occurrence, amount, and range of loss on any pending litigation or claim, we are currently unable to predict their ultimate outcome, and, with respect to any pending litigation or claim where no liability has been accrued, to make a meaningful estimate of the reasonably possible loss or range of loss that could result from an unfavorable outcome. In the event opposing litigants in outstanding litigations or claims ultimately succeed at trial and any subsequent appeals on their claims, any potential loss or charges in excess of any established accruals, individually or in the aggregate, could have a material adverse effect on our business, financial condition, results of operations, and/or cash flows in the period in which the unfavorable outcome occurs or becomes probable, and potentially in future periods.

9. Segment Information

We have two reportable segments: Core Illumina and one segment related to the combined activities of our Consolidated VIEs. Our Consolidated VIEs currently include only the operations of Helix, whereas prior to the deconsolidation of GRAIL on February 28, 2017, our Consolidated VIEs included the combined operations of GRAIL and Helix.

We report segment information based on the management approach. This approach designates the internal reporting used by the Chief Operating Decision Maker (“CODM”) for making decisions and assessing performance as the source of our reportable segments. The CODM allocates resources and assesses the performance of each operating segment using information about its revenue and income (loss) from operations. Based on the information used by the CODM, we have determined our reportable segments as follows:

Core Illumina:

Core Illumina's products and services serve customers in the research, clinical and applied markets, and enable the adoption of a variety of genomic solutions. Core Illumina includes all operations, excluding the results of the consolidated VIEs.

Consolidated VIEs:

Helix: Helix was established to enable individuals to explore their genetic information by providing affordable sequencing and database services for consumers through third-party partners, driving the creation of an ecosystem of consumer applications.

GRAIL: GRAIL was created to develop a blood test for early-stage cancer detection. GRAIL was in the early stages of developing this test and as such, had no revenues through the date of deconsolidation.

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Management evaluates the performance of our operating segments based upon income (loss) from operations. We do not allocate expenses between segments. Core Illumina sells products and provides services to GRAIL and Helix in accordance with contractual agreements between the entities.

The following table presents the operating performance of each reportable segment (in millions):

| | Three Months Ended | | Nine Months Ended | |
|---------------------------------------|--------------------|--------|--------------------|----------|
| | September 30, 2018 | | September 30, 2017 | |
| | 2018 | 2017 | 2018 | 2017 |
| Revenue: | | | | |
| Core Illumina | \$ 855 | \$ 715 | \$ 2,467 | \$ 1,978 |
| Consolidated VIEs | 2 | 1 | 8 | 4 |
| Elimination of intersegment revenue | (4) | (2) | (9) | (7) |
| Consolidated revenue | \$ 853 | \$ 714 | \$ 2,466 | \$ 1,975 |
| Income (loss) from operations: | | | | |
| Core Illumina | \$ 264 | \$ 203 | \$ 748 | \$ 447 |
| Consolidated VIEs | (23) | (22) | (64) | (72) |
| Elimination of intersegment earnings | — | — | 2 | 1 |
| Consolidated income from operations | \$ 241 | \$ 181 | \$ 686 | \$ 376 |

The following table presents the total assets of each reportable segment (in millions):

| | September 30, 2018 | | December 31, 2017 | |
|------------------------------------|--------------------|----------|-------------------|------|
| | 2018 | 2017 | 2018 | 2017 |
| Core Illumina | \$ 6,691 | \$ 5,223 | | |
| Consolidated VIEs | 177 | 45 | | |
| Elimination of intersegment assets | (109) | (11) | | |
| Consolidated total assets | \$ 6,759 | \$ 5,257 | | |

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

Our Management's Discussion and Analysis of Financial Condition and Results of Operations (MD&A) will help readers understand our results of operations, financial condition, and cash flow. It is provided in addition to the accompanying condensed consolidated financial statements and notes. This MD&A is organized as follows:

Business Overview and Outlook. High level discussion of our operating results and significant known trends that affect our business.

Results of Operations. Detailed discussion of our revenues and expenses.

Liquidity and Capital Resources. Discussion of key aspects of our statements of cash flows, changes in our financial position, and our financial commitments.

Off-Balance Sheet Arrangements. We have no off-balance sheet arrangements.

Critical Accounting Policies and Estimates. Discussion of significant changes since our most recent Annual Report on Form 10-K we believe are important to understanding the assumptions and judgments underlying our financial statements.

Recent Accounting Pronouncements. Summary of recent accounting pronouncements applicable to our condensed consolidated financial statements.

This MD&A discussion contains forward-looking statements that involve risks and uncertainties. Please see “Consideration Regarding Forward-Looking Statements” at the end of this MD&A section for additional factors relating to

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such statements. This MD&A should be read in conjunction with our condensed consolidated financial statements and accompanying notes included in this report and our Annual Report on Form 10-K for the fiscal year ended December 31, 2017. Operating results are not necessarily indicative of results that may occur in future periods.

Business Overview and Outlook

This overview and outlook provides a high-level discussion of our operating results and significant known trends that affect our business. We believe that an understanding of these trends is important to understanding our financial results for the periods being reported herein as well as our future financial performance. This summary is not intended to be exhaustive, nor is it intended to be a substitute for the detailed discussion and analysis provided elsewhere in this report.

About Illumina

We have two reportable segments: Illumina's core operations (Core Illumina) and one segment related to the activities of our Consolidated VIEs. Our Consolidated VIEs currently include only the operations of Helix, whereas prior to the GRAIL deconsolidation on February 28, 2017, our Consolidated VIEs included the combined operations of GRAIL and Helix. For information on GRAIL and Helix, refer to notes 2 and 9 of the Notes to the Condensed Consolidated Financial Statements provided in this report.

Our focus on innovation has established us as the global leader in DNA sequencing and array-based technologies, serving customers in the research, clinical and applied markets. Our products are used for applications in the life sciences, oncology, reproductive health, agriculture and other emerging segments.

Our customers include a broad range of academic, government, pharmaceutical, biotechnology, and other leading institutions around the globe.

Our comprehensive line of products addresses the scale of experimentation and breadth of functional analysis to advance disease research, drug development, and the development of molecular tests. This portfolio of leading-edge sequencing and array-based solutions address a range of genomic complexity and throughput, enabling researchers and clinical practitioners to select the best solution for their scientific challenge.

Our financial results have been, and will continue to be, impacted by several significant trends, which are described below. While these trends are important to understanding and evaluating our financial results, this discussion should be read in conjunction with our condensed consolidated financial statements and the notes thereto in Item 1, Part I of this report, and the other transactions, events, and trends discussed in "Risk Factors" in Item 1A, Part II of this report and Item 1A of our Annual Report on Form 10-K for the fiscal year ended December 31, 2017.

Financial Overview

Consolidated financial highlights for the first three quarters of 2018 included the following:

Net revenue increased 25% during the first three quarters of 2018 to \$2.5 billion compared to \$2.0 billion in the first three quarters of 2017 due to the growth in sales of our consumables, services and instruments, primarily driven by increases in sequencing. We expect our revenue, as compared to the prior year, to continue to increase in 2018.

Gross profit as a percentage of revenue (gross margin) was 69.4% in the first three quarters of 2018 compared to 65.0% in the first three quarters of 2017. The gross margin increase was primarily driven by an increase in consumables as a percentage of revenue, which generate higher gross margins, and the impairment of an acquired

intangible asset and inventory reserves related to product transitions that were recorded in the first three quarters of 2017. Our gross margin in future periods will depend on several factors, including: market conditions that may impact our pricing power; sales mix changes among consumables, instruments, and services; product mix changes between established products and new products; excess and obsolete inventories; royalties; our cost structure for manufacturing operations relative to volume; and product support obligations.

Income from operations as a percentage of revenue increased to 27.8% in the first three quarters of 2018 compared to 19.0% in the first three quarters of 2017 primarily due to increased revenue, improved gross margins, and a decrease in operating expenses as a percentage of revenue. We expect our operating expenses to continue to grow on an absolute basis.

Our effective tax rate was 14.6% in the first three quarters of 2018 compared to 24.3% in the first three quarters of 2017. The variance from the U.S. federal statutory tax rate of 21% in the first three quarters of 2018 was primarily attributable to the mix of earnings in jurisdictions with lower statutory tax rates than the U.S. federal statutory tax rate, such as in Singapore and the United Kingdom, and the discrete tax benefit associated with the recognition of prior year losses from our investment in Helix, offset partially by the discrete tax expense associated with updating prior year estimates of the impact of U.S. Tax Reform.

Cash, cash equivalents, and short-term investments were \$3.4 billion as of September 30, 2018, of which approximately \$817 million was held by our foreign subsidiaries.

Results of Operations

To enhance comparability, the following table sets forth our unaudited condensed consolidated statements of income for the specified reporting periods stated as a percentage of total revenue.

| | Q3 2018 | Q3 2017 | YTD 2018 | YTD 2017 |
|--|---------|---------|-------------|-------------|
| Revenue: | | | | |
| Product revenue | 83.2 % | 83.5 % | 81.5 % | 82.6 % |
| Service and other revenue | 16.8 | 16.5 | 18.5 | 17.4 |
| Total revenue | 100.0 | 100.0 | 100.0 | 100.0 |
| Cost of revenue: | | | | |
| Cost of product revenue | 21.6 | 24.2 | 21.9 | 25.7 |
| Cost of service and other revenue | 7.2 | 7.0 | 7.7 | 7.7 |
| Amortization of acquired intangible assets | 1.2 | 1.3 | 1.0 | 1.6 |
| Total cost of revenue | 30.0 | 32.5 | 30.6 | 35.0 |
| Gross profit | 70.0 | 67.5 | 69.4 | 65.0 |
| Operating expense: | | | | |
| Research and development | 18.6 | 18.7 | 18.1 | 20.7 |
| Selling, general and administrative | 23.2 | 23.5 | 23.5 | 25.3 |
| Total operating expense | 41.8 | 42.2 | 41.6 | 46.0 |
| Income from operations | 28.2 | 25.3 | 27.8 | 19.0 |
| Other income (expense): | | | | |
| Interest income | 1.6 | 0.6 | 1.3 | 0.7 |
| Interest expense | (1.8) | (1.4) | (1.5) | (1.3) |
| Other (expense) income, net | (0.9) | — | 0.2 | 23.1 |
| Total other (expense) income, net | (1.1) | (0.8) | — | 22.5 |
| Income before income taxes | 27.1 | 24.5 | 27.8 | 41.5 |
| Provision for income taxes | 5.1 | 3.2 | 4.1 | 10.1 |
| Consolidated net income | 22.0 | 21.3 | 23.7 | 31.4 |
| Add: Net loss attributable to noncontrolling interests | 1.3 | 1.5 | 1.3 | 1.9 |

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Net income attributable to Illumina stockholders 23.3 % 22.8 % 25.0 % 33.3 %

Percentages may not recalculate due to rounding

Our fiscal year is the 52 or 53 weeks ending the Sunday closest to December 31, with quarters of 13 or 14 weeks ending the Sunday closest to March 31, June 30, September 30, and December 31. The three and nine month periods ended September 30, 2018 and October 1, 2017 were both 13 and 39 weeks, respectively.

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Revenue

| (Dollars in millions) | Q3 2018 | Q3 2017 | Change | % Change | YTD 2018 | YTD 2017 | Change | % Change |
|---------------------------|------------|------------|--------|-------------|-------------|-------------|--------|-------------|
| Consumables | \$ 550 | \$ 451 | \$ 99 | 22 % | \$ 1,595 | \$ 1,240 | \$ 355 | 29 % |
| Instruments | 154 | 140 | 14 | 10 | 398 | 376 | 22 | 6 |
| Other product | 6 | 5 | 1 | 20 | 18 | 15 | 3 | 20 |
| Total product revenue | 710 | 596 | 114 | 19 | 2,011 | 1,631 | 380 | 23 |
| Service and other revenue | 143 | 118 | 25 | 21 | 455 | 344 | 111 | 32 |
| Total revenue | \$ 853 | \$ 714 | \$ 139 | 20 % | \$ 2,466 | \$ 1,975 | \$ 491 | 25 % |

Other product revenue consists primarily of freight. Service and other revenue consists primarily of sequencing and genotyping service revenue as well as instrument service contract revenue. Total revenue primarily relates to Core Illumina for all periods presented.

The increases in consumables revenue in Q3 2018 and the first three quarters of 2018 were primarily due to an \$87 million and \$304 million increase in sequencing consumables revenue, respectively, driven primarily by growth in the instrument installed base. Instruments revenue increased in Q3 2018 primarily due to a \$10 million increase in sequencing instruments revenue. The increase in instruments revenue in the first three quarters of 2018 was primarily due to a \$19 million increase in sequencing instruments revenue driven by increased shipments of our NovaSeq instruments, partially offset by fewer shipments of our HiSeq instruments. Service and other revenue increased in Q3 2018 and the first three quarters of 2018 as a result of increased revenue from sequencing services and co-development agreements. Service and other revenue also increased in the first three quarters of 2018 due to increased revenue from genotyping services.

Gross Margin

| (Dollars in millions) | Q3 2018 | Q3 2017 | Change | % Change | YTD 2018 | YTD 2017 | Change | % Change |
|-----------------------|------------|------------|--------|-------------|-------------|-------------|--------|-------------|
| Gross profit | \$ 597 | \$ 482 | \$ 115 | 24% | \$ 1,710 | \$ 1,284 | \$ 426 | 33% |
| Gross margin | 70.0 % | 67.5 % | | | 69.4 % | 65.0 % | | |

The gross margin increase in Q3 2018 and the first three quarters of 2018 was primarily driven by increases in consumables as a percentage of revenue, which generate higher gross margins. Gross margin also increased in the first three quarters of 2018 due to an \$18 million impairment of an acquired intangible asset and inventory reserves related to product transitions that were recorded in Q1 2017.

Operating Expense

| (Dollars in millions) | Q3 2018 | Q3 2017 | Change | % Change | YTD 2018 | YTD 2017 | Change | % Change |
|-------------------------------------|------------|------------|--------|-------------|-------------|-------------|--------|-------------|
| Research and development | \$ 159 | \$ 134 | \$ 25 | 19 % | \$ 447 | \$ 409 | \$ 38 | 9 % |
| Selling, general and administrative | 197 | 167 | 30 | 18 | 577 | 499 | 78 | 16 |
| Total operating expense | \$ 356 | \$ 301 | \$ 55 | 18 % | \$ 1,024 | \$ 908 | \$ 116 | 13 % |

Core Illumina R&D expense increased by \$23 million, or 18%, in Q3 2018 and by \$40 million, or 10%, in the first three quarters of 2018, primarily due to increased headcount, as we continue to invest in the research and development of new products and enhancements to existing products, and an increase in performance-based compensation. R&D expense of our Consolidated VIEs increased by \$2 million in Q3 2018 due to growth in Helix's operations. R&D expense of our Consolidated VIEs decreased by \$2 million in the first three quarters of 2018 primarily due to the deconsolidation of GRAIL in Q1 2017.

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Core Illumina SG&A expense increased by \$31 million, or 20%, in Q3 2018 and by \$87 million, or 19%, in the first three quarters of 2018, primarily due to increased headcount and investment in facilities to support the continued growth and scale of our operations, and an increase in performance-based compensation. SG&A expense of our Consolidated VIEs decreased by \$1 million in Q3 2018 due to elevated marketing expenses in Q3 2017 related to Helix's platform launch. SG&A expense of our Consolidated VIEs decreased by \$9 million in the first three quarters of 2018 primarily due to the deconsolidation of GRAIL in Q1 2017, partially offset by the growth of Helix's operations.

Other Income (Expense)

| (Dollars in millions) | Q3 2018 | Q3 2017 | Change | % Change | YTD 2018 | YTD 2017 | Change | % Change |
|-----------------------------------|------------|------------|--------|-------------|-------------|-------------|----------|-------------|
| Interest income | \$ 14 | \$ 4 | \$ 10 | 250 % | \$ 31 | \$ 13 | \$ 18 | 138 % |
| Interest expense | (15) | (10) | (5) | 50 | (37) | (26) | (11) | 42 |
| Other (expense) income, net | (8) | — | (8) | 100 | 5 | 457 | (452) | (99) |
| Total other (expense) income, net | \$(9) | \$(6) | \$(3) | 50 % | \$(1) | \$444 | \$(445) | (100)% |

Other income (expense) primarily relates to Core Illumina for all periods presented.

Interest income increased in Q3 2018 and in the first three quarters of 2018 as a result of higher yields on our investments and higher cash and cash-equivalent balances.

Interest expense consisted primarily of accretion of discount on our convertible senior notes and interest recorded on our financing obligations related to our build-to-suit properties.

Other (expense) income, net, in Q3 2018 consisted primarily of mark-to-market adjustments and impairments from our strategic investments. Other (expense) income, net decreased in the first three quarters of 2018 primarily due to a \$453 million gain recorded on the deconsolidation of GRAIL in Q1 2017.

Provision for Income Taxes

| (Dollars in millions) | Q3 2018 | Q3 2017 | Change | % Change | YTD 2018 | YTD 2017 | Change | % Change |
|----------------------------|------------|------------|--------|-------------|-------------|-------------|----------|-------------|
| Income before income taxes | \$232 | \$175 | \$ 57 | 33 % | \$685 | \$820 | \$(135) | (16)% |
| Provision for income taxes | 44 | 23 | 21 | 91 | 100 | 199 | (99) | (50) |
| Consolidated net income | \$188 | \$152 | \$ 36 | 24 % | \$585 | \$621 | \$(36) | (6)% |
| Effective tax rate | 19.0 % | 12.9 % | | | 14.6 % | 24.3 % | | |

For U.S. federal purposes, the corporate statutory income tax rate was reduced from 35% to 21%, effective for our 2018 tax year. The provisional impact of the Tax Cuts and Jobs Act (U.S. Tax Reform), enacted on December 22, 2017, was our best estimate based on a review of the new law and is subject to revision based on our existing accounting for income taxes policy as further information is gathered, and interpretation and analysis of the tax legislation evolves. The Securities and Exchange Commission has issued rules allowing for a measurement period of up to one year after the enactment date of U.S. Tax Reform to finalize the recording of the related tax impacts. In Q3 2018, we recorded \$11.0 million as a discrete tax expense as a result of updating our prior year estimates of the impact of U.S. Tax Reform. Any future changes to our estimated impact of U.S. Tax Reform will be included as an adjustment to the provision for income taxes.

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Our effective tax rate was 19.0% for Q3 2018 compared to 12.9% in Q3 2017. The variance from the U.S. federal statutory tax rate of 21% in Q3 2018 was primarily impacted by the mix of earnings in jurisdictions with lower statutory tax rates than the U.S. federal statutory tax rate, such as in Singapore and the United Kingdom, offset partially by the discrete tax expense associated with updating our prior year estimates of the impact of U.S. Tax Reform. The variance from the U.S. federal statutory tax rate of 35% in Q3 2017 was primarily impacted by the mix of earnings in jurisdictions with lower statutory tax rates than the U.S. federal statutory tax rate, such as in Singapore and the United Kingdom, and excess tax benefits related to share-based compensation.

Our effective tax rate was 14.6% for the first three quarters of 2018 compared to 24.3% for the first three quarters of 2017. For the first three quarters of 2018, the variance from the U.S. federal statutory tax rate of 21% was primarily attributable to the mix of earnings in jurisdictions with lower statutory tax rates than the U.S. federal statutory tax rate, such as in Singapore and the United Kingdom, and the discrete benefit associated with the recognition of prior year losses from our investment in Helix, offset partially by the discrete tax expense associated with updating prior year estimates of the impact of U.S. Tax Reform. For the first three quarters of 2017, the variance from the U.S. federal statutory tax rate of 35% was primarily attributable to the mix of earnings in jurisdictions with lower statutory rates than the U.S. federal statutory rate, such as in Singapore and the United Kingdom, and excess tax benefits related to share-based compensation, partially offset by the discrete tax impact of \$150 million from the gain on deconsolidation of GRAIL.

Our future effective tax rate may vary from the U.S. federal statutory tax rate due to the mix of earnings in tax jurisdictions with different statutory tax rates and the other factors discussed in the risk factor “We are subject to risks related to taxation in multiple jurisdictions” in Part I Item 1A of our Annual Report on Form 10-K for the fiscal year ended December 31, 2017. Based on our initial interpretation and analysis of U.S. Tax Reform and projected future financial results, we anticipate that our effective tax rate will trend lower than the U.S. federal statutory tax rate in the future due to the portion of our earnings that will be subject to lower statutory tax rates. As further information is gathered, and interpretation and analysis of the tax legislation evolves, we will update our estimate of the future effective tax rate. The Ninth Circuit decision on July 24, 2018 to overturn a U.S. Tax Court opinion provided in Q3 2015 that stock compensation should be excluded from cost sharing charges was withdrawn on August 7, 2018. The final resolution of this case is uncertain and we are still evaluating, but if a decision similar to the one provided on July 24, 2018 becomes more likely than not, we anticipate a discrete tax detriment of less than \$30 million could be recorded and then a modest ongoing impact thereafter.

Liquidity and Capital Resources

At September 30, 2018, we had approximately \$1.35 billion in cash and cash equivalents, of which approximately \$817 million was held by our foreign subsidiaries. Cash and cash equivalents held by Helix as of September 30, 2018 were \$52 million. Cash and cash equivalents increased by \$121 million from December 31, 2017, due to the factors described in the “Cash Flow Summary” below. Our primary source of liquidity, other than our holdings of cash, cash equivalents and investments, has been cash flows from operations and from time to time issuances of debt. Our ability to generate cash from operations provides us with the financial flexibility we need to meet operating, investing, and financing needs. We currently do not expect our foreign earnings generated in 2018 to be indefinitely invested in the foreign jurisdictions.

Historically, we have liquidated our short-term investments and/or issued debt and equity securities to finance our business needs as a supplement to cash provided by operating activities. As of September 30, 2018, we had \$2.04 billion in short-term investments, including \$97 million held by Helix. Our short-term investments include marketable securities consisting of U.S. government-sponsored entities, corporate debt securities, and U.S. Treasury securities.

In August 2018, we issued convertible senior notes due 2023 (2023 Notes) with an aggregate principal amount of \$750 million. The net proceeds from the issuance, after deducting the offering expenses payable by us, were \$735 million. We used a portion of the net proceeds to repurchase \$103 million dollars of our common stock concurrently with the offering. The 2023 Notes mature on August 15, 2023 and were not convertible as of September 30, 2018.

Our convertible senior notes due in 2019 and 2021 became convertible, at the option of the holders, on October 1, 2018 and continue to be convertible at least through December 31, 2018. It is our intent and policy to settle conversions of the notes through combination settlement; this involves repayment of an amount of cash equal to the principal amount and delivery of the excess of conversion value over the principal amount in shares of common stock.

We anticipate that our current cash, cash equivalents, and short-term investments, together with cash provided by operating activities are sufficient to fund our near-term capital and operating needs for at least the next 12 months.

Operating

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needs include the planned costs to operate our business, including amounts required to fund working capital and capital expenditures. Our primary short-term needs for capital, which are subject to change, include:

- support of commercialization efforts related to our current and future products, including expansion of our direct sales force and field support resources both in the United States and abroad;
- acquisitions of equipment and other fixed assets for use in our current and future manufacturing and research and development facilities;
- the continued advancement of research and development efforts;
- potential strategic acquisitions and investments;
- potential early repayment of debt obligations;
- the expansion needs of our facilities, including costs of leasing and building out additional facilities;
- repurchases of our outstanding common stock; and
- the one-time transition tax on earnings of certain foreign subsidiaries that were previously tax deferred in accordance with the U.S. Tax Reform.

On May 4, 2017, our Board of Directors authorized a share repurchase program to repurchase \$250 million of outstanding common stock. On May 1, 2018, our Board of Directors increased the share repurchase authorization by \$150 million. The repurchases may be completed under a 10b5-1 plan or at management's discretion. Authorizations to repurchase \$147 million of our common stock remained available as of September 30, 2018.

Certain noncontrolling Helix investors may require Illumina to redeem certain noncontrolling interests in cash at the then approximate fair market value. Such redemption right is exercisable at the option of certain noncontrolling interest holders after January 1, 2021, provided that a bona fide pursuit of the sale of Helix has occurred and an initial public offering of Helix has not been completed. The fair value of the redeemable noncontrolling interests related to Helix as of September 30, 2018 was \$218 million.

We had \$73 million remaining in our capital commitment to the venture capital investment fund as of September 30, 2018.

We expect that our revenue and the resulting income from operations, as well as the status of each of our new product development programs, will significantly impact our cash management decisions.

Our future capital requirements and the adequacy of our available funds will depend on many factors, including:

- our ability to successfully commercialize and further develop our technologies and create innovative products in our markets;
- scientific progress in our research and development programs and the magnitude of those programs;
- competing technological and market developments; and
- the need to enter into collaborations with other companies or acquire other companies or technologies to enhance or complement our product and service offerings.

Cash Flow Summary

| (In millions) | YTD 2018 | YTD 2017 |
|--|-------------|-------------|
| Net cash provided by operating activities | \$ 842 | \$ 581 |
| Net cash (used in) provided by investing activities | (1,465) | 101 |
| Net cash provided by (used in) financing activities | 748 | (67) |
| Effect of exchange rate changes on cash and cash equivalents | (4) | 4 |
| Net increase in cash and cash equivalents | \$ 121 | \$ 619 |

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Operating Activities

Net cash provided by operating activities in the first three quarters of 2018 consisted of net income of \$585 million plus net adjustments of \$269 million, partially offset by net changes in operating assets and liabilities of \$12 million. The primary non-cash adjustments to net income included depreciation and amortization expenses of \$129 million, share-based compensation of \$146 million, and accretion of debt discount of \$26 million, partially offset by deferred income taxes of \$32 million. Cash flow impact from changes in net operating assets and liabilities were primarily driven by increases in inventory, accounts receivable, and other assets, partially offset by increases in accounts payable and accrued liabilities.

Net cash provided by operating activities in the first three quarters of 2017 consisted of net income of \$621 million less net adjustments of \$116 million partially offset by net changes in operating assets and liabilities of \$76 million. The primary non-cash adjustments to net income included the gain on deconsolidation of GRAIL of \$453 million, depreciation and amortization expenses of \$117 million, share-based compensation of \$123 million, deferred income tax of \$53 million, impairment of intangible assets of \$23 million, and accretion of debt discount of \$23 million. Cash flow impact from changes in net operating assets and liabilities were driven by increases in accrued liabilities, other long-term liabilities and inventory.

Investing Activities

Net cash used in investing activities in the first three quarters of 2018 totaled \$1,465 million. We purchased \$2,352 million of available-for-sale securities and \$1,230 million of our available-for-sale securities matured or were sold during the period. Our net cash paid for acquisitions was \$100 million, and we invested \$231 million in capital expenditures, primarily associated with our investment in facilities.

Net cash provided by investing activities totaled \$101 million for the first three quarters of 2017. We purchased \$359 million of available-for-sale securities and \$495 million of our available-for-sale securities matured or were sold during the period. We received \$278 million from the sale of a portion of our ownership interest in GRAIL. In connection with the sale, we removed \$52 million in cash from our condensed consolidated balance sheet as a result of the deconsolidation. We paid \$25 million for strategic investments and invested \$234 million in capital expenditures, primarily associated with our investment in facilities.

Financing Activities

Net cash provided by financing activities in the first three quarters of 2018 totaled \$748 million. We received \$735 million in net proceeds from the issuance of \$750 million in principal amount of our 2023 Notes, and we used \$103 million to repurchase our common stock concurrently with this debt offering. We received \$45 million in proceeds from issuance of common stock through the exercise of stock options and the sale of shares under our employee stock purchase plan, and contributions from noncontrolling interest owners were \$92 million. We used \$18 million to pay taxes related to net share settlement of equity awards.

Net cash used in financing activities in the first three quarters of 2017 totaled \$67 million. We used \$176 million to repurchase shares of our common stock and \$28 million to pay taxes related to net share settlement of equity awards. We received \$63 million in proceeds from issuance of common stock through the exercise of stock options and the sale of shares under our employee stock purchase plan, and contributions from noncontrolling interest owners were \$79 million.

Off-Balance Sheet Arrangements

We do not participate in any transactions that generate relationships with unconsolidated entities or financial partnerships, such as entities often referred to as structured finance or special purpose entities, which would have been established for the purpose of facilitating off-balance sheet arrangements or other contractually narrow or limited purposes. During the first three quarters of 2018, we were not involved in any “off-balance sheet arrangements” within the meaning of the rules of the Securities and Exchange Commission.

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Critical Accounting Policies and Estimates

In preparing our condensed consolidated financial statements, we make estimates, assumptions and judgments that can have a significant impact on our net revenue, operating income and net income, as well as on the value of certain assets and liabilities on our balance sheet. We believe that the estimates, assumptions and judgments involved in the accounting policies described in Management's Discussion and Analysis of Financial Condition and Results of Operations in Item 7 of our Annual Report on Form 10-K for the fiscal year ended December 31, 2017 have the greatest potential impact on our financial statements, so we consider them to be our critical accounting policies and estimates. Other than the adoption of ASU 2014-09, Revenue from Contracts with Customers (Topic 606) as described in note "1. Summary of Significant Accounting Policies" in Part I, Item 1, Notes to Condensed Consolidated Financial Statements provided in this report, there were no material changes to our critical accounting policies and estimates during the first three quarters of 2018.

Recent Accounting Pronouncements

For summary of recent accounting pronouncements applicable to our condensed consolidated financial statements, see note "1. Summary of Significant Accounting Policies" in Part I, Item 1, Notes to Condensed Consolidated Financial Statements, which is incorporated herein by reference.

Consideration Regarding Forward-Looking Statements

This Quarterly Report on Form 10-Q contains, and our officers and representatives may from time to time make, "forward-looking statements" within the meaning of the safe harbor provisions of the U.S. Private Securities Litigation Reform Act of 1995. Forward-looking statements can be identified by words such as: "anticipate," "intend," "plan," "goal," "seek," "believe," "continue," "project," "estimate," "expect," "strategy," "future," "likely," "may," "potential," "predict," and similar words or phrases, or the negatives of these words, may identify forward-looking statements, but the absence of these words does not necessarily mean that a statement is not forward looking. Examples of forward-looking statements include, among others, statements we make regarding:

- our expectations as to our future financial performance, results of operations, or other operational results or metrics;
- our expectations regarding the launch of new products or services;
- the benefits that we expect will result from our business activities and certain transactions we have completed, such as product introductions, increased revenue, decreased expenses, and avoided expenses and expenditures;
- our expectations of the effect on our financial condition of claims, litigation, contingent liabilities, and governmental investigations, proceedings, and regulations;
- our strategies or expectations for product development, market position, financial results, and reserves;
- our expectations regarding the integration of any acquired technologies with our existing technology; and
- other expectations, beliefs, plans, strategies, anticipated developments, and other matters that are not historical facts.

Forward-looking statements are neither historical facts nor assurances of future performance. Instead, they are based only on our current beliefs, expectations, and assumptions regarding the future of our business, future plans and strategies, projections, anticipated events and trends, the economy, and other future conditions. Because forward-looking statements relate to the future, they are subject to inherent uncertainties, risks, and changes in circumstances that are difficult to predict and many of which are outside of our control. Our actual results and financial condition may differ materially from those indicated in the forward-looking statements. Therefore, you should not rely on any of these forward-looking statements. Important factors that could cause our actual results and financial condition to differ materially from those indicated in the forward-looking statements include, among others, the following:

- challenges inherent in developing, manufacturing, and launching new products and services, including expanding manufacturing operations and reliance on third-party suppliers for critical components;

the timing and mix of customer orders among our products and services;
the impact of recently launched or pre-announced products and services on existing products and services;
our ability to develop and commercialize our instruments and consumables, to deploy new products, services, and applications, and to expand the markets for our technology platforms;

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our ability to manufacture robust instrumentation and consumables;
our ability to identify and integrate acquired technologies, products, or businesses successfully;
our expectations and beliefs regarding prospects and growth for the business and its markets;
the assumptions underlying our critical accounting policies and estimates;
our assessments and estimates that determine our effective tax rate;
our assessments and beliefs regarding the outcome of pending legal proceedings and any liability, that we may incur as a result of those proceedings;
uncertainty, or adverse economic and business conditions, including as a result of slowing or uncertain economic growth in the United States or worldwide; and
other factors detailed in our filings with the SEC, including the risks, uncertainties, and assumptions described in Item 1A of our Annual Report on Form 10-K for the fiscal year ended December 31, 2017, or in information disclosed in public conference calls, the date and time of which are released beforehand.

The foregoing factors should be considered together with other factors detailed in our filings with the Securities and Exchange Commission, including our most recent filings on Forms 10-K and 10-Q, or in information disclosed in public conference calls, the date and time of which are released beforehand. We undertake no obligation, and do not intend, to publicly update any forward-looking statement, whether written or oral, that may be made from time to time, or to review or confirm analysts' expectations, or to provide interim reports or updates on the progress of any current financial quarter, in each case whether as a result of new information, future developments, or otherwise.

Item 3. Quantitative and Qualitative Disclosures About Market Risk.

There were no substantial changes to our market risks in the nine months ended September 30, 2018, when compared to the disclosures in Item 7A of our Annual Report on Form 10-K for the fiscal year ended December 31, 2017.

Item 4. Controls and Procedures.

We design our internal controls to provide reasonable assurance that (1) our transactions are properly authorized; (2) our assets are safeguarded against unauthorized or improper use; and (3) our transactions are properly recorded and reported in conformity with U.S. generally accepted accounting principles. We also maintain internal controls and procedures to ensure that we comply with applicable laws and our established financial policies.

Based on management's evaluation (under the supervision and with the participation of our chief executive officer (CEO) and chief financial officer (CFO)), as of the end of the period covered by this report, our CEO and CFO concluded that our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended (the "Exchange Act")), are effective to provide reasonable assurance that information required to be disclosed by us in reports that we file or submit under the Exchange Act is recorded, processed, summarized, and reported within the time periods specified in SEC rules and forms, and is accumulated and communicated to management, including our principal executive officer and principal financial officer, as appropriate, to allow timely decisions regarding required disclosure.

During Q3 2018, we continued to monitor and evaluate the operating effectiveness of key controls. There were no changes in our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) of the Exchange Act) that materially affected or are reasonably likely to materially affect internal control over financial reporting.

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PART II — OTHER INFORMATION

Item 1. Legal Proceedings.

We are involved in various lawsuits and claims arising in the ordinary course of business, including actions with respect to intellectual property, employment, and contractual matters. In connection with these matters, we assess, on a regular basis, the probability and range of possible loss based on the developments in these matters. A liability is recorded in the financial statements if it is believed to be probable that a loss has been incurred and the amount of the loss can be reasonably estimated. Because litigation is inherently unpredictable and unfavorable results could occur, assessing contingencies is highly subjective and requires judgments about future events. We regularly review outstanding legal matters to determine the adequacy of the liabilities accrued and related disclosures. The amount of ultimate loss may differ from these estimates. Each matter presents its own unique circumstances, and prior litigation does not necessarily provide a reliable basis on which to predict the outcome, or range of outcomes, in any individual proceeding. Because of the uncertainties related to the occurrence, amount, and range of loss on any pending litigation or claim, we are currently unable to predict their ultimate outcome, and, with respect to any pending litigation or claim where no liability has been accrued, to make a meaningful estimate of the reasonably possible loss or range of loss that could result from an unfavorable outcome. In the event opposing litigants or claims ultimately succeed at trial and any subsequent appeals on their claims, any potential loss or charges in excess of any established accruals, individually or in the aggregate, could have a material adverse effect on our business, financial condition, results of operations, and/or cash flows in the period in which the unfavorable outcome occurs or becomes probable, and potentially in future periods.

Item 1A. Risk Factors.

Our business is subject to various risks, including those described in Item 1A of our Annual Report on Form 10-K for the fiscal year ended December 31, 2017, which we strongly encourage you to review. There have been no material changes from the risk factors disclosed in Item 1A of our Form 10-K.

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

Unregistered Sales of Equity Securities

None during the quarterly period ended September 30, 2018, other than as reported in the Company's Current Report on Form 8-K filed on August 21, 2018.

Purchases of Equity Securities by the Issuer

The following table summarizes shares repurchased pursuant to our share repurchase program during the three months ended September 30, 2018 (in thousands except for price per share):

| Period | Total Number of Shares Purchased (1) | Average Price Paid per Share | Total Number of Shares Purchased as Part of Publicly Announced Programs | Approximate Dollar Value of Shares that May Yet Be Purchased Under the Programs |
|--------|--|---------------------------------------|---|--|
| | | | | |

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| | | | | |
|--------------------------------------|-----|-----------|-----|------------|
| July 2, 2018 - July 29, 2018 | — | — | — | \$ 250,000 |
| July 30, 2018 - August 26, 2018 | 314 | \$ 326.98 | 314 | \$ 147,270 |
| August 27, 2018 - September 30, 2018 | — | — | — | \$ 147,270 |
| Total | 314 | \$ 326.98 | 314 | \$ 147,270 |

(1) All shares purchased were made concurrently with the offering of our 2023 Notes in privately negotiated transactions.

Item 3. Defaults Upon Senior Securities.

None.

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Item 4. Mine Safety Disclosures.

Not applicable.

Item 5. Other Information.

None.

Item 6. Exhibits.

Exhibit Number Description of Document

31.1 Certification of Francis A. deSouza pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.

31.2 Certification of Sam A. Samad pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.

32.1 Certification of Francis A. deSouza pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.

32.2 Certification of Sam A. Samad pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.

101.INS XBRL Instance Document

101.SCH XBRL Taxonomy Extension Schema

101.CAL XBRL Taxonomy Extension Calculation Linkbase

101.LAB XBRL Taxonomy Extension Label Linkbase

101.PRE XBRL Taxonomy Extension Presentation Linkbase

101.DEF XBRL Taxonomy Extension Definition Linkbase

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

ILLUMINA, INC.
(registrant)

Date: October 23, 2018 /s/ SAM A. SAMAD
Sam A. Samad
Senior Vice President and Chief Financial Officer