

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549**

**Form S-3
REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933**

ILLUMINA, INC.
(Exact Name of Registrant as Specified in Its Charter)

Delaware
(State or Other Jurisdiction of
Incorporation or Organization)

33-0804655
(I.R.S. Employer
Identification Number)

5200 Illumina Way
San Diego, CA 92122
(858) 202-4500
(Address, Including Zip Code, and Telephone Number, Including Area Code, of Registrant's Principal Executive Offices)

Charles E. Dadswell
Illumina, Inc.
5200 Illumina Way
San Diego, CA 92122
(858) 202-4500
(Name, Address, Including Zip Code, and Telephone Number, Including Area Code, of Agent For Service)

Copy to:
Kerry S. Burke
Covington & Burling LLP
One CityCenter
850 Tenth Street, NW
Washington, DC 20001-4956
(202) 662-6000

Approximate date of commencement of proposed sale to the public: From time to time after the Registration Statement becomes effective.

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

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

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

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

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

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

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

Large accelerated filer Accelerated filer

Non-accelerated filer Smaller reporting company

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of the Securities Act.

CALCULATION OF REGISTRATION FEE

Title of Each Class of Securities to be Registered	Amount to be Registered(1)	Proposed Maximum Offering Price Per Unit(1)	Proposed Maximum Aggregate Offering Price(1)	Amount of Registration Fee(1)
Debt Securities				
Common Stock, par value \$0.01 per share				
Preferred Stock, par value \$0.01 per share				
Warrants				
Stock Purchase Contracts				
Stock Purchase Units				
Subscription Rights				

(1) An indeterminate aggregate initial offering price, principal amount or number of the securities of each identified class is being registered as may from time to time be issued at indeterminate prices or upon conversion, exchange or exercise of securities registered hereunder to the extent any such securities are, by their terms, convertible into, or exchangeable or exercisable for, such securities. Securities registered hereunder may be sold either separately or as units comprised of more than one type of security registered hereunder. Separate consideration may or may not be received for securities that are issuable on exercise, conversion or exchange of other securities or that are issued in units. In accordance with Rule 456(b) and Rule 457(r), the registrant is deferring payment of all of the registration fee.

PROSPECTUS

illumina, Inc.

Debt Securities

Common Stock

Preferred Stock

Warrants

Stock Purchase Contracts

Stock Purchase Units

Subscription Rights

We may use this prospectus from time to time to offer debt securities, shares of our common stock, shares of our preferred stock, warrants to purchase our debt securities, common stock, preferred stock or other securities, stock purchase contracts, stock purchase units and subscription rights. We refer to our debt securities, common stock, preferred stock, warrants, stock purchase contracts, stock purchase units and subscription rights collectively as the “securities.” Any or all of the securities may be offered and sold separately or together. The debt securities and preferred stock may be convertible into or exchangeable or exercisable for other securities. We will provide specific terms of these securities, and the manner in which these securities will be offered, in supplements to this prospectus. The prospectus supplements may also add, update or change information contained in this prospectus.

Our common stock is listed on the Nasdaq Global Select Market under the symbol “ILMN.”

Investing in securities involves risks. You should carefully read this prospectus and the applicable prospectus supplement, including the section entitled “[Risk Factors](#)” on page 1 of this prospectus, the section entitled “Risk Factors” in the applicable prospectus supplement and risk factors in our periodic reports and other information filed with the Securities and Exchange Commission before investing in our securities.

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

The date of this prospectus is March 12, 2021.

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ABOUT THIS PROSPECTUS

This prospectus is part of an “automatic shelf” registration statement that we filed with the Securities and Exchange Commission (the “SEC”) as a “well-known seasoned issuer” as defined in Rule 405 under the Securities Act of 1933, as amended (the “Securities Act”). Under this shelf registration process, we may sell, from time to time, an indeterminate amount of any combination of the securities described in this prospectus in one or more offerings. This prospectus provides you with a general description of the securities we may offer, which is not meant to be a complete description of any security. Each time that securities are sold, a prospectus supplement containing specific information about the terms of that offering will be provided, including the specific amounts, prices and terms of the securities offered. The prospectus supplement and any other offering material may also add to, update or change information contained in this prospectus or in documents we have incorporated by reference into this prospectus. We urge you to read both this prospectus and any prospectus supplement and any other offering material (including any free writing prospectus) prepared by or on behalf of us for a specific offering of securities, together with additional information described under the heading “Documents Incorporated by Reference into this Prospectus” on page 4 of this prospectus and under the heading “Where You Can Find More Information” in this prospectus. We have not authorized anyone to provide you with different or additional information from that contained in this prospectus and any prospectus supplement and any other offering material (including any free writing prospectus) prepared by or on behalf of us for a specific offering of securities. We take no responsibility for, and can provide no assurance as to the reliability of, any information that other may give. We are not making an offer to sell or soliciting an offer to purchase these securities in any jurisdiction where the offer or sale is not permitted.

You should not assume that the information contained in this prospectus or any prospectus supplement is accurate on any date other than the date on the front cover of such document or that any information we have incorporated by reference is correct on any date subsequent to the date of the document incorporated by reference, even though this prospectus or any prospectus supplement is delivered or securities are sold on a later date. Neither the delivery of this prospectus or any applicable prospectus supplement nor any distribution of securities pursuant to such documents shall, under any circumstances, create any implication that there has been no change in the information set forth in this prospectus or any prospectus supplement or in our affairs since the date of this prospectus or any prospectus supplement.

As used in this prospectus the terms the “Company,” “Illumina,” “we,” “us,” and “our” may, depending upon the context, refer to Illumina, Inc., our consolidated subsidiaries, or to all of them taken as a whole.

RISK FACTORS

An investment in our securities involves a high degree of risk. Prior to making a decision about investing in our securities, you should carefully consider the risks and uncertainties described under “Risk Factors” in the applicable prospectus supplement and in our most recent annual report on Form 10-K, quarterly reports on Form 10-Q and current reports on Form 8-K, including any amendments to such reports, incorporated by reference in the registration statement of which this prospectus is a part, together with all other information contained and incorporated by reference in this prospectus and the applicable prospectus supplement. The risks and uncertainties described herein and therein are not the only ones facing us. Additional risks and uncertainties not presently known to us or that we currently deem immaterial also may occur. The occurrence of any of those risks and uncertainties may materially adversely affect our financial condition, results of operations, cash flows or business. In that case, the price or value of our securities could decline and you could lose all or part of your investment. For more information, see “Documents Incorporated by Reference into this Prospectus” and “Where You Can Find More Information” in this prospectus.

DISCLOSURE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus, any prospectus supplement and the documents incorporated by reference herein and therein contain certain forward- looking information about us that is intended to be covered by the safe harbor for “forward-looking statements” provided by the Private Securities Litigation Reform Act of 1995. Forward-looking statements are statements that are not historical facts. Words such as “guidance,” “expect,” “will,” “may,” “anticipate,” “plan,” “estimate,” “project,” “intend,” “should,” “can,” “likely,” “could,” “outlook” and similar expressions are intended to identify forward-looking statements. These statements include statements about our plans, strategies and prospects. Forward-looking statements are not guarantees of performance. These statements are based upon the current beliefs and expectations of our management and are subject to risk and uncertainties that could cause actual results to differ materially from those expressed in, or implied or projected by, the forward-looking information and statements. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot assure you that the expectations will prove to be correct. Among the factors that could cause actual results to differ materially from the expectations expressed in the forward-looking statements are:

- the impact to our business and operating results caused by the COVID-19 pandemic;
- our expectations and beliefs regarding prospects and growth for our business and the markets in which we operate;
- the timing and mix of customer orders among our products and services;
- 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 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;
- our ability to manufacture robust instrumentation and consumables;
- our ability to identify and acquire technologies, and integrate them into our products or businesses successfully;
- risks and uncertainties regarding the pending acquisition of GRAIL, Inc. (GRAIL) and our ability to achieve the expected benefits of such acquisition;
- 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 business, financial, operational and legal risks and uncertainties detailed from time to time in our SEC filings.

The risks included here are not exhaustive. Refer to “Risk Factors” for further discussion regarding our exposure to risks. You should be aware that any forward-looking statement made by us in this prospectus, any prospectus supplement or the documents incorporated herein or therein by reference or elsewhere, speaks only as of the date on which we make it. Additionally, new risks emerge from time to time and it is not possible for us to predict all such risks, or to assess the impact such risks might have on our business or the extent to which any risk or combination of risks may cause actual results to differ materially from those contained in any forward-

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looking statement made in this prospectus, any prospectus supplement or the documents incorporated herein or therein by reference or elsewhere. You should not place undue reliance on any forward-looking statement. Except to the extent required by applicable law or regulation, we undertake no obligation to update or publish revised forward-looking statements to reflect events or circumstances after the date of this prospectus, any prospectus supplement or the documents incorporated by reference, as the case may be, or to reflect the occurrence of unanticipated events.

DOCUMENTS INCORPORATED BY REFERENCE INTO THIS PROSPECTUS

We file annual, quarterly and special reports and other information with the SEC. See “Where You Can Find More Information.” The following documents are incorporated into this prospectus by reference:

- Illumina’s Annual Report on Form [10-K](#) for the year ended January 3, 2021, filed with the SEC on February 17, 2021;
- Illumina’s Current Reports on Form 8-K, filed with the SEC on [February 5, 2021](#), [March 4, 2021](#) and [March 8, 2021](#);
- the description of Illumina’s common stock, \$0.01 par value, contained in [Exhibit 4.5](#) to Illumina’s Annual Report on Form [10-K](#) for the year ended January 3, 2021, filed with the SEC on February 17, 2021, and all amendments or reports filed for the purpose of updating the description included therein; and
- all documents filed by us under Section 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), after the date of the filing of the registration statement of which this prospectus is a part until the offering is terminated (other than Current Reports on Form 8-K or portions thereof furnished under Item 2.02 or 7.01 of Form 8-K and portions of other documents, which under applicable securities laws are deemed furnished and not filed with the SEC).

Our SEC filings are available to the public over the internet on the SEC’s website at <http://www.sec.gov>. We make available free of charge most of our SEC filings through our website (<https://www.illumina.com>) as soon as reasonably practical after they are filed with the SEC. The information contained in, or that can be accessed through, our website is not a part of, or incorporated by reference in, this prospectus. You also may obtain a copy of these filings, excluding exhibits (unless such exhibits are specifically incorporated by reference in such filings), free of charge, by oral or written request directed to: Illumina Investor Relations, 5200 Illumina Way, San Diego, CA 92122, telephone (858) 291-6421.

Any statement made in this prospectus, a prospectus supplement or a document incorporated by reference in this prospectus or a prospectus supplement will be deemed to be modified or superseded for purposes of this prospectus and any applicable prospectus supplement to the extent that a statement contained in an amendment or subsequent amendment to this prospectus or an applicable prospectus supplement, in any subsequent applicable prospectus supplement or in any other subsequently filed document incorporated by reference herein or therein adds, updates or changes that statement. Any statement so modified or superseded will not be deemed, except as so modified or superseded, to constitute a part of this prospectus or any applicable prospectus supplement.

THE COMPANY

We are the global leader in sequencing- and array-based solutions for genetic and genomic analysis. Our products and services serve customers in a wide range of markets, enabling the adoption of genomic solutions in research and clinical settings. Our customers include leading genomic research centers, academic institutions, government laboratories, and hospitals, as well as pharmaceutical, biotechnology, commercial molecular diagnostic laboratories, and consumer genomics companies.

Our portfolio of integrated sequencing and microarray systems, consumables, and analysis tools is designed to accelerate and simplify genetic analysis. This portfolio addresses the range of genomic complexity, price points, and throughput, enabling customers to select the best solution for their research or clinical application.

We were incorporated in California in April 1998 and reincorporated in Delaware in July 2000. Our principal executive office is located at 5200 Illumina Way, San Diego, California, 92122. Our telephone number at that location is (858) 202-4500. Our website is www.illumina.com. The information on our website is not part of this prospectus supplement or the accompanying prospectus.

USE OF PROCEEDS

Unless otherwise described in the applicable prospectus supplement, the net proceeds from the sale of the offered securities will be used for general corporate purposes.

DESCRIPTION OF SECURITIES

This prospectus contains summary descriptions of the debt securities, capital stock, warrants, stock purchase contracts, stock purchase units and subscription rights that we may offer and sell from time to time. These summary descriptions are not meant to be complete descriptions of any security. At the time of an offering and sale, this prospectus together with the accompanying prospectus supplement will contain the material terms of the securities being offered.

DESCRIPTION OF DEBT SECURITIES

This prospectus describes certain general terms and provisions of the debt securities. The debt securities will be issued under an indenture between Illumina, Inc. and U.S. Bank National Association, as trustee (the “trustee”), in one or more series established in or pursuant to a board resolution and set forth in an officer’s certificate or supplemental indenture. When we offer to sell a particular series of debt securities, we will describe the specific terms for the securities in a supplement to this prospectus. The prospectus supplement will also indicate whether the general terms and provisions described in this prospectus apply to a particular series of debt securities.

We have summarized certain terms and provisions of the indenture. The summary is not complete. The indenture has been incorporated by reference as an exhibit to the registration statement for these securities that we have filed with the SEC. You should read the indenture and applicable board resolution and officer’s certificate or supplemental indenture (including the form of debt security) relating to the applicable series of debt securities for the provisions which may be important to you. The indenture is subject to and governed by the Trust Indenture Act of 1939, as amended (the “Trust Indenture Act”).

General

The indenture will not limit the amount of debt securities which we may issue. We have the right to “reopen” a previous issue of a series of debt securities by issuing additional debt securities of such series without notice to or the consent of the holders (or beneficial owners) of the debt securities. We may issue debt securities up to an aggregate principal amount as we may authorize from time to time. The debt securities will be our unsecured obligations and will rank equally with all of our other unsecured and unsubordinated debt from time to time outstanding. Our secured debt, if any, will be effectively senior to the debt securities to the extent of the value of the assets securing such debt. The debt securities will be exclusively our obligations and not of our subsidiaries and therefore the debt securities will be structurally subordinate to the debt and liabilities of any of our subsidiaries. The prospectus supplement will describe the terms of any debt securities being offered, including:

- the title;
- any limit upon the aggregate principal amount;
- the date or dates on which the principal is payable;
- the rate or rates at which the debt securities shall bear interest, if any, or the method by which such rate shall be determined;
- the date or dates from which interest shall accrue;

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- the date or dates on which interest shall be payable;
- the record dates for the determination of holders to whom interest is payable;
- the right, if any, to extend the interest payment periods and the duration of such extension;
- the place or places where the principal of and any interest shall be payable;
- the price or prices at which, the period or periods within which and the terms and conditions upon which debt securities may be redeemed;
- our obligation, if any, to redeem, purchase or repay the debt securities pursuant to any sinking fund or otherwise or at the option of a holder thereof;
- if applicable, the price or prices at which and the period or periods within which and the terms and conditions upon which the debt securities shall be redeemed, purchased or repaid, in whole or in part;
- if other than minimum denominations of \$2,000 and any multiple of \$1,000 in excess thereof, the denominations in which the debt securities of the series shall be issuable;
- the percentage of the principal amount at which the debt securities will be issued and, if other than the principal amount thereof, the portion of such principal amount which shall be payable upon declaration of acceleration of the maturity thereof;
- whether the debt securities are issuable under Rule 144A or Regulation S and, in such case, any provisions unique to such form of issuance including any transfer restrictions or exchange and registration rights;
- any and all other terms of the series including any terms which may be required by or advisable under U.S. law or regulations or advisable in connection with the marketing of the debt securities;
- whether the debt securities are issuable as global securities or definitive certificates and, in such case, the identity for the depository;
- any deletion from, modification of or addition to the events of default or covenants;
- any provisions granting special rights to holders when a specified event occurs;
- whether and under what circumstances we will pay additional amounts on the debt securities held by a person who is not a U.S. person in respect of any tax, assessment or governmental charge withheld or deducted;
- any special tax implications of the debt securities;
- any trustees, authenticating or paying agents, transfer agents or registrars or any other agents with respect to the debt securities;
- any guarantor or co-issuers;
- any special interest premium or other premium;
- whether the debt securities are convertible or exchangeable into common stock or other of our equity securities and the terms and conditions upon which such conversion or exchange shall be effected; and
- the currency in which payments shall be made, if other than U.S. dollars.

Events of Default

The events of default applicable to any series of debt securities sold pursuant to the registration statement will be described in the applicable prospectus supplement.

Modification and Waiver

We and the trustee may amend or modify the indenture or the debt securities without the consent of any holder of debt securities in order to:

- cure ambiguities, omissions, defects or inconsistencies;
- make any change that would provide any additional rights or benefits to the holders of the debt securities of a series;
- provide for or add guarantors with respect to the debt securities of any series;
- secure the debt securities of any series;
- establish the form or forms of debt securities of any series;
- provide for uncertificated debt securities of any series in addition to or in place of certificated debt securities of the applicable series;
- evidence and provide for the acceptance of appointment by a successor trustee;
- provide for the assumption by our successor, if any, to our obligations to holders of any outstanding debt securities of any series in compliance with the provisions of the indenture;
- maintain the qualification of the indenture under the Trust Indenture Act;
- conform any provision in the indenture to this “Description of Debt Securities,” as supplemented by the description of such debt securities in any applicable prospectus supplement or other offering document; or
- make any change that does not adversely affect the rights of any holder in any material respect.

Other amendments and modifications of the indenture or the debt securities may be made with the consent of the holders of not less than a majority of the aggregate principal amount of the outstanding debt securities of each series affected by the amendment or modification (voting together as a single class), and our compliance with any provision of the indenture with respect to any series of debt securities may be waived by written notice to us and the trustee by the holders of a majority of the aggregate principal amount of the outstanding debt securities of each series affected by the waiver (voting together as a single class). However, no modification or amendment may, without the consent of the holder of each outstanding debt security affected:

- reduce the principal amount, or extend the fixed maturity, of the debt securities, alter or waive the redemption or mandatory repurchase provisions of the debt securities;
- impair the right of any holder of the debt securities to receive payment of principal (including premium, if any, and amounts due upon redemption or mandatory repurchase) or interest on the debt securities on and after the due dates for such principal or interest;
- change the currency in which principal, any premium or interest is paid;
- reduce the percentage in principal amount outstanding of debt securities of any series which must consent to an amendment, supplement or waiver or consent to take any action;
- impair the right to institute suit for the enforcement of any payment on the debt securities;
- waive a payment default with respect to the debt securities or any guarantor;
- reduce the interest rate or extend the time for payment of interest on the debt securities;
- adversely affect the ranking of the debt securities of any series; or
- change a place of payment to a location outside of the contiguous United States unless set forth in the prospectus supplement or other offering document relating to such debt securities.

The trustee will not be obligated to enter into any amendment or supplement that impacts its rights, duties or immunities.

Covenants

Principal and Interest

We covenant to pay the principal of and interest on the debt securities when due and in the manner provided in the indenture.

Consolidation, Merger or Sale of Assets

We will not consolidate or combine with or merge with or into or, directly or indirectly, sell, assign, convey, lease, transfer or otherwise dispose of all or substantially all of our assets to any person or persons in a single transaction or through a series of transactions, unless:

- we shall be the continuing person or, if we are not the continuing person, the resulting, surviving or transferee person (the “surviving entity”) is a corporation or limited liability company organized and existing under the laws of the United States or any State thereof or the District of Columbia;
- the surviving entity will expressly assume all of our obligations under the debt securities and the indenture, and will, if required by law to effectuate the assumption, execute a supplemental indenture, in a form satisfactory to the trustee, which will be delivered to the trustee;
- immediately after giving effect to such transaction or series of transactions on a pro forma basis, no default has occurred and is continuing; and
- we or the surviving entity will have delivered to the trustee an officer’s certificate and opinion of counsel stating that the transaction or series of transactions and a supplemental indenture, if any, complies with this covenant and that all conditions precedent in the indenture relating to the transaction or series of transactions have been satisfied.
- The restrictions in the third and fourth bullets shall not be applicable to:
 - the merger or consolidation of us with an affiliate of ours if our board of directors determines in good faith that the purpose of such transaction is principally to change our state of incorporation or convert our form of organization to another form; or
 - the merger of us with or into a single direct or indirect wholly owned subsidiary of ours pursuant to Section 251(g) (or any successor provision) of the General Corporation Law of the State of Delaware (or similar provision of our state of incorporation).

If any consolidation or merger or any sale, assignment, conveyance, lease, transfer or other disposition of all or substantially all our assets occurs in accordance with the indenture, the successor person will succeed to, and be substituted for, and may exercise every right and power of ours under the indenture with the same effect as if such successor person had been named in our place in the indenture. We will (except in the case of a lease) be discharged from all obligations and covenants under the indenture and any debt securities issued thereunder.

Existence

Except as permitted under “—Consolidation, Merger or Sale of Assets,” the indenture requires us to do or cause to be done all things necessary to preserve and keep in full force and effect our existence, rights and franchises; provided, however, that we shall not be required to preserve any right or franchise if we determine that their preservation is no longer desirable in the conduct of business.

Negative Covenants

In addition to the covenants set forth above, any additional covenants applicable to any series of debt securities will be set forth in the applicable prospectus supplement.

Satisfaction, Discharge and Covenant Defeasance

We may terminate our obligations under the indenture, when:

- either:
 - all the debt securities of any series issued that have been authenticated and delivered have been accepted by the trustee for cancellation (other than any debt securities of such series which have been destroyed, lost or stolen and which have been replaced or paid as provided in the indenture); or
 - all the debt securities of any series issued that have not been accepted by the trustee for cancellation have become due and payable, or are by their terms to become due and payable within one year, (a “discharge”) and we have made irrevocable arrangements satisfactory to the trustee for the giving of notice of redemption by such trustee in our name, and at our expense and we have irrevocably deposited or caused to be irrevocably deposited with the trustee sufficient funds to pay and discharge the entire indebtedness on the series of debt securities to pay principal, interest and any premium;
- we have paid or caused to be paid all other sums then due and payable under the indenture; and
- we have delivered to the trustee an officer’s certificate and an opinion of counsel, each stating that all conditions precedent under the indenture relating to the satisfaction and discharge of the indenture have been complied with.

We may elect to have our obligations under the indenture discharged with respect to the outstanding debt securities of any series (“legal defeasance”). Legal defeasance means that we will be deemed to have paid and discharged the entire indebtedness represented by the outstanding debt securities of such series under the indenture, except for:

- the rights of holders of the debt securities to receive principal, interest and any premium when due;
- our obligations with respect to the debt securities concerning issuing temporary debt securities, registration of transfer of debt securities, mutilated, destroyed, lost or stolen debt securities and the maintenance of an office or agency for payment for debt securities payments held in trust;
- the rights, powers, trusts, duties and immunities of the trustee; and
- the defeasance provisions of the indenture.

In addition, we may elect to have our obligations released with respect to certain covenants in the indenture (“covenant defeasance”). Any failure to comply with these obligations will not constitute a default or an event of default with respect to the debt securities of any series. In the event covenant defeasance occurs, certain events, not including non-payment, bankruptcy and insolvency events, described under “Events of Default” will no longer constitute an event of default for that series.

In order to exercise either legal defeasance or covenant defeasance with respect to outstanding debt securities of any series:

- we must irrevocably have deposited or caused to be irrevocably deposited with the trustee as trust funds for the purpose of making the following payments, specifically pledged as security for, and dedicated solely to the benefits of the holders of the debt securities of a series:
 - money;

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- U.S. Government obligations; or
- a combination of money and U.S. Government obligations,

in each case sufficient without reinvestment, in the written opinion of a nationally recognized firm of independent public accountants to pay and discharge, and which shall be applied by the trustee to pay and discharge, all of the principal, interest and any premium at due date or maturity or if we have made irrevocable arrangements satisfactory to the trustee for the giving of notice of redemption by the trustee in our name and at our expense, the redemption date;

- in the case of legal defeasance, we have delivered to the trustee an opinion of counsel stating that, as a result of an IRS ruling or a change in applicable federal income tax law, the beneficial owners of the debt securities of that series will not recognize gain or loss for federal income tax purposes as a result of the deposit, defeasance and discharge to be effected and will be subject to the same federal income tax as would be the case if the deposit, defeasance and discharge did not occur;
- in the case of covenant defeasance, we have delivered to the trustee an opinion of counsel to the effect that the holders of the debt securities of that series will not recognize gain or loss for U.S. federal income tax purposes as a result of the deposit and covenant defeasance to be effected and will be subject to the same federal income tax as would be the case if the deposit and covenant defeasance did not occur;
- no default with respect to the outstanding debt securities of that series has occurred and is continuing at the time of such deposit after giving effect to the deposit or, in the case of legal defeasance, no default relating to bankruptcy or insolvency has occurred and is continuing at any time on or before the 91st day after the date of such deposit (other than an event of default resulting from the borrowing of funds to be applied to such deposit and the grant of any lien securing such borrowings), it being understood that this condition is not deemed satisfied until after the 91st day;
- the legal defeasance or covenant defeasance will not cause the trustee to have a conflicting interest within the meaning of the Trust Indenture Act, assuming all debt securities of a series were in default within the meaning of such act;
- the legal defeasance or covenant defeasance will not result in a breach or violation of, or constitute a default under the indenture (other than an event of default resulting from the borrowing of funds to be applied to such deposit and the grant of any lien securing such borrowings), or any other material agreement or instrument to which we are a party or by which we are bound;
- the legal defeasance or covenant defeasance will not result in the trust arising from such deposit constituting an investment company within the meaning of the Investment Company Act of 1940, as amended, unless the trust is registered under such act or exempt from registration; and
- we have delivered to the trustee an officer's certificate and an opinion of counsel stating that all conditions precedent with respect to the defeasance or covenant defeasance have been complied with.

Unclaimed Funds

Subject to applicable escheatment laws, all funds deposited with the trustee or any paying agent for the payment of principal, interest, premium or additional amounts in respect of the debt securities that remain unclaimed for two years after the maturity date of such debt securities will be repaid to us upon our request. Thereafter, any right of any noteholder to such funds shall be enforceable only against us, and the trustee and paying agents will have no liability therefor.

Governing Law

The indenture and the debt securities for all purposes shall be governed by and construed in accordance with the laws of the State of New York.

Concerning Our Relationship with the Trustee

We maintain ordinary banking relationships with the trustee and its affiliates. The trustee also is a lender to us under our revolving credit facility with Bank of America, N.A., as administrative agent.

DESCRIPTION OF CAPITAL STOCK

General

Under our Amended and Restated Certificate of Incorporation, as amended (the “Certificate”), our authorized capital stock consists of 320 million shares of common stock, par value of \$0.01 per share, and 10 million shares of preferred stock, par value \$0.01 per share. As of February 12, 2021, there were 145.9 million shares of our common stock outstanding (excluding 49.2 million treasury shares) and no shares of preferred stock outstanding.

Common Stock

This section describes the general terms that apply to any common stock we may offer in the future, to which a future prospectus supplement may relate. The following description and any description of our common stock in the applicable prospectus supplement do not purport to be complete and are subject to and are qualified in their entirety by reference to our Certificate and bylaws, in each case as amended, which are included as exhibits to the registration statement of which this prospectus forms a part, and the applicable provisions of the laws of Delaware, our state of incorporation.

Our common stock is listed on the Nasdaq Global Select Exchange and trades under the symbol “ILMN.” The rights, preferences and privileges of holders of our common stock are subject to, and may be adversely affected by, the rights of the holders of shares of any series of preferred stock we may issue in the future.

Voting Rights. The holders of common stock are entitled to one vote per share on all matters to be voted upon by the stockholders. Except as may be otherwise provided by applicable law, our Certificate or our bylaws, all matters shall be decided by a majority of the votes cast by stockholders entitled to vote thereon at a duly held meeting of stockholders at which a quorum is present. Each director shall be elected by the vote of the majority of the votes cast at any meeting for the election of directors at which a quorum is present, provided, that in a contested election, the directors shall be elected by a plurality of the votes of the shares present in person or represented by proxy at such meeting and entitled to vote on the election of directors and recommended for adoption by the board of directors.

Dividends. Subject to preferences that may be applicable to any outstanding preferred stock, the holders of common stock are entitled to receive ratably any dividends that may be declared from time to time by the board of directors out of funds legally available for that purpose.

Liquidation and Dissolution. In the event of our liquidation, dissolution or winding up, the holders of common stock are entitled to share ratably in all assets remaining after payment of liabilities, subject to prior distribution rights of preferred stock then outstanding.

Other Rights. The common stock has no preemptive or conversion rights or other subscription rights. There are no redemption or sinking fund provisions applicable to the common stock. All outstanding shares of common stock are fully paid and nonassessable.

Preferred Stock

This section describes the general terms that apply to any series of preferred stock we may offer in the future, to which a future prospectus supplement may relate. The following description and any description of any series of preferred stock in the applicable prospectus supplement do not purport to be complete and are subject to and are qualified in their entirety by reference to our Certificate and bylaws, in each case as amended, which are included as exhibits to the registration statement of which this prospectus forms a part, the certificate of designations governing the series of preferred stock, and the applicable provisions of the laws of Delaware, our state of incorporation.

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Subject to limitations prescribed by Delaware law and our Certificate, our board of directors is authorized to issue, without action by the holders of our common stock, preferred stock in series and to establish from time to time the number of shares of preferred stock to be included in the series and to fix the designation and any preferences, conversion and other rights, voting powers, restrictions, limitations as to dividends, qualifications and terms and conditions of redemption of the shares of each series, and such other subjects or matters as may be fixed by resolution of our board of directors or one of its duly authorized committees.

The prospectus supplement relating to any series of preferred stock we may offer will describe the specific terms of the series of preferred stock it covers. These terms may include the following with respect to any series of preferred stock:

- the title and stated value of the shares of preferred stock;
- the number of shares of the series offered and the offering price of such shares;
- the voting power, if any, of holders of shares and, if voting power is limited, the circumstances under which such holders may be entitled to vote;
- the rate of dividends, if any, the extent of further participation in dividend distributions, if any, and whether dividends shall be cumulative or non-cumulative;
- whether or not such series shall be redeemable, and, if so, the terms and conditions upon which shares shall be redeemable;
- the extent, if any, to which such series shall have the benefit of any sinking fund provision for the redemption or purchase of shares;
- the rights, if any, of such series, in the event of our dissolution, liquidation or winding up of our affairs;
- if applicable, the dividend rate(s), period(s) or payment date(s) or the method(s) of calculating them;
- if applicable, the date from which dividends on shares shall cumulate;
- the procedures for any auction and remarketing, if any, for shares;
- any listing of the shares on any securities exchange;
- the terms and conditions, if applicable, upon which shares will be convertible into shares of common stock or other securities, including the conversion price or manner of calculating the conversion price;
- whether interests in shares will be represented by global securities;
- the relative ranking and preferences of shares as to dividend rights and rights upon liquidation, dissolution or winding up of our affairs;
- any limitations on issuance of any series of shares of preferred stock ranking senior to or on a parity with the series of shares of preferred stock as to dividend rights and rights upon liquidation, dissolution or winding up of our affairs;
- any limitations on direct or beneficial ownership and restrictions on transfer of shares; and
- any additional rights, preferences, qualifications, limitations and restrictions of the series.

In addition to describing the specific terms of the applicable series of preferred stock, the applicable prospectus supplement will contain a summary of certain United States federal income tax consequences applicable to such series of preferred stock.

Any shares of preferred stock sold hereunder, or issued upon conversion, exercise or exchange of other securities sold hereunder, will be duly authorized, validly issued and, to the extent provided in the applicable certificate of designations, fully paid and nonassessable. This means that, to the extent provided in the applicable certificate of designations, you have paid the full purchase price for your shares and will not be assessed any additional amount for your shares.

Our board of directors will designate the transfer agent and registrar for each series of preferred stock and the exchange or market on which such series will be listed or eligible for trading, if any, at the time it authorized such series.

To the extent that applicable law or the applicable certificate of designations provides that holders of shares of a series of preferred stock are entitled to voting rights, each holder shall be entitled to vote ratably (relative to each other such holder) on all matters submitted to a vote of such holders. Each holder may exercise such vote either in person or by proxy.

Antitakeover Effects of Certain Provisions

Certain provisions of our Certificate and bylaws could delay the removal of incumbent directors and could make it more difficult to successfully complete a merger, tender offer, or proxy contest involving us. Our Certificate has provisions that give our board of directors the ability to issue preferred stock and determine the rights and designations of the preferred stock at any time without stockholder approval. The rights of the holders of our common stock will be subject to, and may be adversely affected by, the rights of the holders of any preferred stock that may be issued in the future. The issuance of preferred stock, while providing flexibility in connection with possible acquisitions and other corporate purposes, could have the effect of making it more difficult for a third party to acquire, or of discouraging a third party from acquiring, a majority of our outstanding voting stock. In addition, until 2022, the staggered terms of our board of directors could have the effect of delaying or deferring a change in control.

Number of Directors, Removal; Filling Vacancies. Our bylaws provide that the business and affairs of our company will be managed by or under the direction of a board of directors, the exact number thereof to be determined from time to time by resolution of the board of directors. Our bylaws also provide that no director may be removed with or without cause before the expiration of his or her term of office except by vote of the stockholders then entitled to vote at an election of directors. In addition, our bylaws provide that any vacancy on our board of directors that results from an increase in the number of directors or any vacancy created by death, removal or resignation may be filled either by the majority of the directors then in office, although less than a quorum, or by a sole remaining director.

Special Meeting. Our bylaws provide that special meetings of stockholders may be called by our board of directors, unless otherwise prescribed by statute. The business permitted to be conducted at any special meeting of stockholders is limited to the purposes specified in the notice of the meeting (or supplement or amendment thereto) given by or at the direction of the board of directors. Stockholders may not make nominations for directors or bring any business before a special meeting of stockholders.

Advance Notice Provisions for Stockholder Nominations, Proxy Access and Stockholder Proposals. Our bylaws establish an advance notice procedure for stockholders to make nominations of candidates for election of directors, or to bring other business before an annual meeting of stockholders.

The stockholder notice procedure provides that only persons who are nominated by, or at the direction of, our board of directors at any meeting of stockholders, or by a stockholder who is entitled to vote for the election of directors and has given timely written notice to our Secretary prior to the meeting at which directors are to be elected, will be eligible for election as directors. The stockholder notice procedure provides that at an annual meeting only such business may be conducted as (1) is specified in the notice of meeting given by, or at the direction of, our board of directors, (2) has otherwise properly been brought before the meeting by, or at the direction of, our board of directors or (3) in the case of an annual meeting of stockholders, is properly brought before the meeting by a stockholder who is entitled to vote and who has complied with the necessary procedures. Under the stockholder notice procedure, for stockholder notice in respect of the annual meeting of our stockholders to be timely, such notice must be delivered to our principal executive offices not later than the close of business on the 90th day nor earlier than the close of business on the 120th day prior to the first anniversary of the preceding year's annual meeting of stockholders.

Under the stockholder notice procedure, a stockholder's notice to our company proposing to nominate a person for election as a director must contain certain information, including, but not limited to, information regarding the identity of the nominating shareholder, the nominee and certain other persons associated with such parties; the class and number of shares of our stock that are owned by or on behalf of each of the nominating shareholder and the nominee, and persons associated with such parties; a description of the nominee's qualifications to be a director, and a statement as to whether such nominee would be an independent director, and the basis therefor, under the listing standards of the Nasdaq Stock Market and our corporate governance guidelines; a description of all transactions involving shares of our stock by or on behalf of the nominating stockholder or any associated person; and a description of any agreement or understanding that has been entered into or is in effect to mitigate loss to, manage risk or benefit of stock price changes for, or change the voting power of the nominating stockholder, the nominee, or any associated persons with respect to our securities. Under the stockholder notice procedure, a stockholder's notice relating to the conduct of business other than the nomination of directors must contain certain information about the proposed business and about the proposing stockholder, including a brief description of the business the stockholder proposes to bring before the meeting, the text of the proposed business, the reasons for conducting such business at such meeting, and any interest of such stockholder in the business so proposed. If the chairman of the meeting determines that a nomination or any business proposed to be brought before the meeting was not made or proposed, as the case may be, in accordance with the stockholder notice procedure, or the stockholder (or a qualified representative thereof) does not appear at the annual meeting in person or by proxy to present the nomination or proposal, then such defective proposal or nomination will be disregarded.

Our bylaws also include proxy access to allow eligible stockholders to include their own nominee or nominees for director in our proxy materials for an annual meeting of stockholders, along with the candidates nominated by the board of directors. Any stockholder or a group of up to 20 stockholders who have maintained continuous qualifying ownership of at least 3% of the shares of our outstanding common stock for at least the previous three years would be permitted to include up to two directors or 20% of the number of director nominees in our proxy materials for our annual meeting of stockholders. Under the proxy access procedure, for the stockholders' notice in respect of the annual meeting of our stockholders to be timely, such notice must be delivered to our principal executive offices not earlier than 150 days and no later than 120 days before the anniversary of the date that we issued our proxy statement for the previous year's annual meeting of stockholders.

Under the proxy access procedure, a stockholder's notice to our company proposing to nominate a person for election as a director must contain the information required pursuant to the stockholder notice procedure outlined above, as well as a copy of the Schedule 14N that was filed with the SEC pursuant to Rule 14a-18 of the Exchange Act and all information relating to such person that would be required to be disclosed in a proxy statement or other filings required to be made in connection with solicitations of proxies for election of directors in a contested election pursuant to Section 14 of the Exchange Act and the rules and regulations promulgated thereunder. The nominating stockholders also would be required to make certain representations to and agreements with us, including (1) lack of intent to change or influence control of Illumina, (2) intent to maintain qualifying ownership through the annual meeting date, (3) the accuracy and completeness of all facts, statements and other information provided to us, and (4) the assumption of liabilities related to and indemnifying us against losses arising out of the nomination.

We would not be required to include a stockholder nominee in our proxy materials if, among other disqualifying activities and attributes, (a) the nominee is or becomes a party to any agreement or understanding with any person or entity other than Illumina with respect to any direct or indirect compensation, reimbursement or indemnification in connection with the nominee's service as a director, (b) the nominee is not independent, as determined by our board of directors, (c) the nominee's election to the board of directors would cause us to violate our bylaws, Certificate or corporate governance guidelines, the rules and listing standards of the Nasdaq Stock Market, or any applicable state or federal law, rule or regulation, or (d) the nominee is or has been, within the past three years, an officer or director of a competitor. If the board of directors determines that a nomination

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was not made in accordance with the proxy access procedure or the stockholder (or a qualified representative thereof) does not appear at the annual meeting in person or by proxy to present the nomination, then such defective nomination will be disregarded.

Although our bylaws do not give our board of directors any power to approve or disapprove stockholder nominations for the election of directors or proper stockholder proposals for action, they may have the effect of precluding a contest for the election of directors or the consideration of stockholder proposals if the proper procedures are not followed.

Record Date Procedure for Stockholder Action by Written Consent. Our bylaws establish a procedure for the fixing of a record date in respect of corporate action, which shall not be more than 60 nor less than 10 days before the date of a meeting of stockholders meeting, nor more than 60 days prior to any other action.

Amendment of Certain Provisions of the Certificate of Incorporation and Bylaws. Under the Delaware General Corporation Law (the “DGCL”), the stockholders of a corporation have the right to adopt, amend or repeal the bylaws and, with the approval of the board of directors, the certificate of incorporation of a corporation. In addition, if the certificate of incorporation so provides, the bylaws may be adopted, amended or repealed by the board of directors. Our Certificate provides that the bylaws may be amended or repealed by our board of directors.

Antitakeover Legislation. Section 203 of the DGCL provides that, subject to certain exceptions, a corporation shall not engage in any “business combination” with any “interested stockholder” for a three-year period following the time that such stockholder becomes an interested stockholder unless: (1) prior to such time, the board of directors of the corporation approved either the business combination or the transaction that resulted in the stockholder becoming an interested stockholder; (2) upon consummation of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction commenced (excluding certain shares); or (3) on or subsequent to such time, the business combination is approved by the board of directors of the corporation and by the affirmative vote of at least 66 2/3% of the outstanding voting stock that is not owned by the interested stockholder. Section 203 of the DGCL generally defines an “interested stockholder” to include (x) any person that is the owner of 15% or more of the outstanding voting stock of the corporation, or is an affiliate or associate of the corporation and was the owner of 15% or more of the outstanding voting stock of the corporation at any time within three years immediately prior to the relevant date and (y) the affiliates and associates of any such person. Section 203 of the DGCL generally defines a “business combination” to include (i) any merger or consolidation involving the corporation and the interested stockholder, (ii) mergers and sales or other dispositions of 10% or more of the assets of the corporation with or to an interested stockholder, (iii) certain transactions resulting in the issuance or transfer to the interested stockholder of any stock of the corporation or its subsidiaries, (iv) certain transactions that would result in increasing the proportionate share of the stock of the corporation or its subsidiaries owned by the interested stockholder and (v) receipt by the interested stockholder of the benefit (except proportionately as a stockholder) of any loans, advances, guarantees, pledges or other financial benefits.

Under certain circumstances, Section 203 of the DGCL makes it more difficult for a person who would be an interested stockholder to effect various business combinations with a corporation for a three-year period, although the certificate of incorporation or stockholder-adopted bylaws may exclude a corporation from the restrictions imposed thereunder. Neither our Certificate nor our bylaws exclude our company from the restrictions imposed under Section 203 of the DGCL. We anticipate that the provisions of Section 203 of the DGCL may encourage companies interested in acquiring our company to negotiate in advance with our board of directors because the stockholder approval requirement would be avoided if our board of directors approves, prior to the time the stockholder becomes an interested stockholder, either the business combination or the transaction which results in the stockholder becoming an interested stockholder.

DESCRIPTION OF WARRANTS

This section describes the general terms that apply to any warrants we may offer in the future, to which a future prospectus supplement may relate. The following description and any description of warrants in the applicable prospectus supplement do not purport to be complete and are subject to and are qualified in their entirety by reference to the applicable warrant agreement that we will enter into at the time of issue.

We may issue warrants to purchase debt securities, preferred stock, common stock or other securities. We may issue warrants independently or together with other securities. Warrants sold with other securities may be attached to or separate from the other securities. We will issue warrants under one or more warrant agreements between us and a bank or trust company, as warrant agent, that we will name in the prospectus supplement. The warrant agent will act solely as our agent in connection with the warrants and will not assume any obligation or relationship of agency or trust for or with any holders or beneficial owners of warrants.

The prospectus supplement relating to any warrants we offer will include specific terms relating to the offering. These terms may include some or all of the following:

- the title of such warrants;
- the aggregate number of such warrants;
- the price or prices at which such warrants will be issued;
- the currency or currencies, including composite currencies, in which the price of such warrants may be payable;
- the designation and terms of the securities purchasable upon exercise of such warrants and the number of such securities issuable upon exercise of such warrants;
- the price at which and the currency or currencies, including composite currencies, in which the securities purchasable upon exercise of such warrants may be purchased;
- the date on which the right to exercise such warrants shall commence and the date on which such right will expire;
- whether such warrants will be issued in registered form or bearer form;
- if applicable, the minimum or maximum amount of such warrants that may be exercised at any one time;
- if applicable, the designation and terms of the securities with which such warrants are issued and the number of such warrants issued with each such security;
- if applicable, the date on and after which such warrants and the related securities will be separately transferable;
- information with respect to book-entry procedures, if any; and
- any other terms of such warrants, including terms, procedures and limitations relating to the exchange and exercise of such warrants.

In addition to describing the specific terms of the warrants, the applicable prospectus supplement will contain a summary of material United States federal income tax consequences applicable to the warrants.

DESCRIPTION OF STOCK PURCHASE CONTRACTS AND STOCK PURCHASE UNITS

This section describes the general terms that apply to any stock purchase contracts or stock purchase units we may offer in the future, to which a future prospectus supplement may relate. The following description and

any description of stock purchase contracts or stock purchase units in the applicable prospectus supplement do not purport to be complete and are subject to and are qualified in their entirety by reference to the stock purchase contract agreement or stock purchase unit agreement, as applicable, that we will enter into at the time of issue and, if applicable, collateral arrangements and depositary arrangements relating to such stock purchase contracts or stock purchase units.

We may issue stock purchase contracts, including contracts obligating holders to purchase from or sell to us, and obligating us to sell to or purchase from the holders, a specified number of shares of common stock or other securities at a future date or dates, which we refer to in this prospectus as stock purchase contracts. The price per share of the securities and the number or amount of the securities may be fixed at the time the stock purchase contracts are issued or may be determined by reference to a specific formula set forth in the stock purchase contracts, and may be subject to adjustment under anti-dilution formulas. The stock purchase contracts may be issued separately or as part of units consisting of a stock purchase contract and debt securities, common securities, preferred securities, warrants or debt obligations of third parties, including United States Treasury securities, any other securities described in the applicable prospectus supplement or any combination of the foregoing, securing the holders' obligations to purchase the securities under the stock purchase contracts, which we refer to herein as stock purchase units. The stock purchase contracts may require holders to secure their obligations under the stock purchase contracts in a specified manner. The stock purchase contracts also may require us to make periodic payments to the holders of the stock purchase contracts or the stock purchase units, as the case may be, or vice versa, and those payments may be unsecured or pre-funded on some basis.

The prospectus supplement relating to any stock purchase contracts or stock purchase units we may offer will describe the specific terms of the stock purchase contracts or stock purchase units it covers, including, if applicable, collateral or depositary arrangements. In addition to describing the specific terms of the stock purchase contracts or stock purchase units, the applicable prospectus supplement will contain a summary of certain United States federal income tax consequences applicable to the stock purchase contracts or stock purchase units, as applicable.

DESCRIPTION OF SUBSCRIPTION RIGHTS

This section describes the general terms that apply to any subscription rights we may offer in the future, to which a future prospectus supplement may relate. The following description and any description of subscription rights in the applicable prospectus supplement do not purport to be complete and are subject to and are qualified in their entirety by reference to the subscription rights agreement that we will enter into at the time of issue.

We may issue subscription rights to purchase common stock, preferred stock, debt securities or other securities. These subscription rights may be issued independently or together with any other security offered by us and may or may not be transferable by the securityholder receiving the subscription rights in such offering. In connection with any offering of subscription rights, we may enter into a standby arrangement with one or more underwriters or other purchasers pursuant to which the underwriters or other purchasers may be required to purchase up to all of the securities remaining unsubscribed for after such offering.

The prospectus supplement relating to any subscription rights we may offer will describe the specific terms of the subscription rights it covers. These terms may include the following:

- the price, if any, for the subscription rights;
- the exercise price payable for each security upon the exercise of the subscription right;
- the number of subscription rights issued to each securityholder;
- the number and terms of each security that may be purchased per each subscription right;

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- any provisions for adjustment of the number or amount of securities receivable upon exercise of the subscription rights or the exercise price of the subscription rights;
- the extent to which the subscription rights are transferable;
- any other terms of the subscription rights, including the terms, procedures and limitations relating to the exchange and exercise of the subscription rights;
- the date on which the right to exercise the subscription rights shall commence, and the date on which the subscription rights shall expire;
- the extent to which the subscription rights may include an over-subscription privilege with respect to unsubscribed securities; and
- if applicable, the material terms of any standby underwriting or purchase arrangement entered into by us in connection with the offering of subscription rights.

In addition to describing the specific terms of the subscription rights, the applicable prospectus supplement will contain a summary of certain United States federal income tax consequences applicable to the subscription rights.

PLAN OF DISTRIBUTION

We may offer and sell the securities being offered by this prospectus from time to time in one or more of the following ways:

- to underwriters or dealers for resale to the public or to institutional investors;
- directly to institutional investors;
- directly to a limited number of purchasers or to a single purchaser;
- through agents to the public or to institutional investors;
- by pledge to secure debts and other obligations;
- through the writing of options or other hedging or derivative transactions;
- through a combination of any of these methods of sale; or
- through any other method permitted pursuant to applicable law.

The prospectus supplement with respect to each series of securities will state the terms of the offering of the securities, including:

- the name or names of any underwriters, dealers or agents;
- the purchase price of the securities and the net proceeds to be received by us from the sale;
- any underwriting discounts or agency fees and other items constituting underwriters' or agents' compensation;
- any public offering price;
- any discounts or concessions allowed or reallowed or paid to dealers; and
- any securities exchange on which the securities may be listed.

If we use underwriters or dealers in the sale, the securities will be acquired by the underwriters or dealers for their own account and may be resold from time to time in one or more transactions, including:

- privately negotiated transactions;

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- at a fixed public offering price or prices, which may be changed;
- in “at the market offerings” within the meaning of Rule 415(a)(4) of the Securities Act;
- at prices related to prevailing market prices; or
- at negotiated prices.

Any initial public offering price and any discounts or concessions allowed or reallocated or paid to dealers may be changed from time to time.

If underwriters are used in the sale of any securities, the securities may be offered either to the public through underwriting syndicates represented by managing underwriters, or directly by underwriters. Generally, the underwriters’ obligations to purchase the securities will be subject to certain conditions precedent. The underwriters will be obligated to purchase all of the securities if they purchase any of the securities.

We may enter into derivative transactions with third parties, or sell securities not covered by this prospectus to third parties in privately negotiated transactions. If the applicable prospectus supplement indicates, in connection with those derivatives, the third parties may sell securities covered by this prospectus and the applicable prospectus supplement, including short sale transactions. If so, the third party may use securities pledged by us or borrowed from us or others to settle those sales or to close out any related open borrowings of common shares, and may use securities received from us in settlement of those derivatives to close out any related open borrowings of common shares. The third party in such sale transactions will be an underwriter and, if not identified in this prospectus, will be identified in the applicable prospectus supplement or a post-effective amendment to this registration statement.

If indicated in an applicable prospectus supplement, we may sell the securities through agents from time to time. The applicable prospectus supplement will name any agent involved in the offer or sale of the securities and any commissions we pay to them. Generally, any agent will be acting on a best efforts basis for the period of its appointment. We may authorize underwriters, dealers or agents to solicit offers by certain purchasers to purchase the securities from us at the public offering price set forth in the applicable prospectus supplement pursuant to delayed delivery contracts providing for payment and delivery on a specified date in the future. The delayed delivery contracts will be subject only to those conditions set forth in the applicable prospectus supplement, and the applicable prospectus supplement will set forth any commissions we pay for solicitation of these delayed delivery contracts.

Offered securities may also be offered and sold, if so indicated in the applicable prospectus supplement, in connection with a remarketing upon their purchase, in accordance with a redemption or repayment pursuant to their terms, or otherwise, by one or more remarketing firms, acting as principals for their own accounts or as agents for us. Any remarketing firm will be identified and the terms of its agreements, if any, with us and its compensation will be described in the applicable prospectus supplement.

Agents, underwriters and other third parties described above may be entitled to indemnification by us against certain civil liabilities under the Securities Act, or to contribution with respect to payments which the agents or underwriters may be required to make in respect thereof. Agents, underwriters and such other third parties may be customers of, engage in transactions with, or perform services for us in the ordinary course of business.

Each series of securities will be a new issue of securities and will have no established trading market, other than our common stock, which is listed on the Nasdaq Global Select Market. Any common stock sold will be listed on the Nasdaq Global Select Market, upon official notice of issuance. The securities other than the common stock may or may not be listed on a national securities exchange, and we cannot assure you that there will be a secondary market for any such securities or liquidity in the secondary market if one develops. Any

underwriters to whom we sell securities for public offering and sale may make a market in the securities, but such underwriters will not be obligated to do so and may discontinue any market making at any time without notice.

LEGAL MATTERS

Certain legal matters in connection with the securities offered pursuant to this prospectus will be passed upon by Covington & Burling LLP, Washington, D.C. Any underwriters will be advised about legal matters by their own counsel, who will be named in a prospectus supplement to the extent required by law.

EXPERTS

The consolidated financial statements of Illumina, Inc. appearing in Illumina, Inc.'s Annual Report (Form 10-K) for the year ended January 3, 2021, and the effectiveness of Illumina, Inc.'s internal control over financial reporting as of January 3, 2021, have been audited by Ernst & Young LLP, independent registered public accounting firm, as set forth in their reports thereon, included therein, and incorporated herein by reference. Such financial statements are, and audited financial statements to be included in subsequently filed documents will be, incorporated herein in reliance upon the reports of Ernst & Young LLP pertaining to such financial statements and the effectiveness of our internal control over financial reporting as of the respective dates (to the extent covered by consents filed with the Securities and Exchange Commission) given on the authority of such firm as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

We have filed a registration statement on Form S-3 with the SEC under the Securities Act to register the securities offered by this prospectus. This prospectus, which is a part of the registration statement, does not contain all of the information identified in the registration statement. For further information about us and the securities offered by means of this prospectus, we refer you to the registration statement and the exhibits filed as a part of the registration statement. Statements contained in this prospectus as to the contents of any contract or other document filed as an exhibit to the registration statement are not necessarily complete. If a contract or document has been filed as an exhibit to the registration statement, we urge you to review the copy of the contract or document that has been filed.

We are subject to the information and periodic reporting requirements of the Securities Exchange Act of 1934. In accordance with those requirements, we file annual, quarterly and special reports, proxy statements and other information with the SEC. The SEC maintains a website that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC. The documents we file with the SEC, including the registration statement and the documents incorporated by reference into this prospectus, are available on that website at <http://www.sec.gov>. Certain information is also available on our website at <http://www.illumina.com>.

PART II
INFORMATION NOT REQUIRED IN PROSPECTUS

Item 14. Other Expenses of Issuance and Distribution

The following table sets forth the estimated expenses we will bear in connection with the issuance and distribution of the securities registered hereby:

SEC registration fee	\$(1)
Printing expenses	(2)
Legal fees and expenses	(2)
Accounting fees and expenses	(2)
Trustee fees and expenses	(2)
Rating agency fees	(2)
Transfer agent and registrar fees and expenses	(2)
Miscellaneous	(2)
Total	<u>\$(2)</u>

- (1) Deferred pursuant to Rule 456(b) under the Securities Act and calculated in connection with an offering of securities under this registration statement pursuant to Rule 457(r) under the Securities Act.
- (2) These fees cannot be estimated at this time as they are calculated based on the securities offered and the number of issuances. An estimate of expenses in connection with the sale and distribution of the securities being offered will be included in the applicable prospectus supplement.

Item 15. Indemnification of Directors and Officers

The following summary is qualified in its entirety by reference to the complete text of the statutes referred to below and to our Certificate and bylaws.

The Certificate provides that we shall indemnify, to the fullest extent permitted by Section 145 of the DGCL, each person who is made or threatened to be made a party to an action or proceeding because such person or his or her testator or intestate is or was a director or officer of Illumina or any predecessor of the corporation or is or was serving as a director, officer or employee of another enterprise at the request of Illumina or any predecessor of the corporation.

Section 145 of the DGCL permits a corporation to indemnify any director or officer of the corporation against expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred in connection with any action, suit or proceeding brought by reason of the fact that such person is or was a director or officer of the corporation, if such person acted in good faith and in a manner that he reasonably believed to be in or not opposed to the best interests of the corporation, and, with respect to any criminal action or proceeding, if he had no reason to believe his conduct was unlawful. In a derivative action (i.e., one brought by or on behalf of the corporation), however, indemnification may be made only for expenses, actually and reasonably incurred by any director or officer in connection with the defense or settlement of such action or suit, if such person acted in good faith and in a manner that he reasonably believed to be in or not opposed to the best interests of the corporation, except that no indemnification shall be made if such person shall have been adjudged to be liable to the corporation, unless and only to the extent that the Delaware Court of Chancery or the court in which the action or suit was brought shall determine that the defendant is fairly and reasonably entitled to indemnity for such expenses despite such adjudication of liability.

Pursuant to Section 102(b)(7) of the DGCL, the Certificate eliminates the liability of a director to the corporation or its stockholders for monetary damages for breach of fiduciary duty as a director, except for liabilities arising (i) from any breach of the director's duty of loyalty to the corporation or its stockholders,

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(ii) from acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law, (iii) under Section 174 of the DGCL, or (iv) from any transaction from which the director derived an improper personal benefit.

We may purchase and maintain insurance on behalf of any person who is or was a director, officer, employee or agent of Illumina or another corporation, partnership, joint venture, trust or other enterprise. Under an insurance policy maintained by us, our directors and officers and the directors and officers of each of the co-registrants are insured, within the limits and subject to the limitations of the policy, against certain expenses in connection with the defense of certain claims, actions, suits or proceedings, and certain liabilities which might be imposed as a result of such claims, actions, suits or proceedings, which may be brought against them by reason of being or having been such directors or officers.

Item 16. Exhibits

Exhibit Number	Description
1.1*	Form of Underwriting Agreement.
4.1	Amended and Restated Certificate of Incorporation of Illumina, Inc. (incorporated by reference to Exhibit 3.3 to Illumina's Quarterly Report on Form 10-Q for the period ended June 30, 2019).
4.2	Amended and Restated Bylaws of Illumina, Inc. (incorporated by reference to Exhibit 3.4 to Illumina's Quarterly Report on Form 10-Q for the period ended September 30, 2019).
4.3	Specimen Common Stock Certificate (incorporated by reference to Exhibit 4.1 to Illumina's Registration Statement on Form S-1 (File No. 333-33922), filed with the SEC on April 3, 2000, as amended).
4.4*	Specimen Certificate of Preferred Stock.
4.5*	Certificate of Designation of Preferred Stock.
4.6**	Indenture, dated as of March 12, 2021, by and between Illumina, Inc. and U.S. Bank National Association, as trustee.
4.7*	Form of Debt Security.
4.8*	Form of Warrant Agreement, including form of Warrant Certificate.
4.9*	Form of Stock Purchase Contract Agreement, including form of Security Certificate.
4.10*	Form of Stock Purchase Unit Agreement, including form of Unit Certificate.
4.11*	Form of Subscription Rights Agreement, including form of Rights Certificate.
5.1**	Opinion of Covington & Burling LLP as to the legality of the securities being registered.
23.1**	Consent of Independent Registered Public Accounting Firm.
23.2**	Consent of Covington & Burling LLP (contained in Exhibit 5.1).
24.1**	Powers of Attorney (included in the signature pages to this registration statement).
25.1**	Form T-1 Statement of Eligibility under the Trust Indenture Act of 1939, as amended, of U.S. Bank National Association.

* To be filed by amendment or incorporated by reference in connection with the offering of securities registered hereby, as appropriate.

** Filed herewith.

Item 17. Undertakings

The undersigned registrant hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

(i) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933;

(ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Securities and Exchange Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement; and

(iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement;

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

(2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(4) That, for the purpose of determining liability under the Securities Act of 1933 to any purchaser:

(i) Each prospectus filed by the registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and

(ii) Each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5), or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii), or (x) for the purpose of providing the information required by Section 10(a) of the Securities Act of 1933 shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof. Provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is

part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date.

(5) That, for the purpose of determining liability of the registrant under the Securities Act of 1933 to any purchaser in the initial distribution of the securities, the undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

- (i) Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;
- (ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;
- (iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and
- (iv) Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.

(6) That, for purposes of determining any liability under the Securities Act of 1933, each filing of the registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(7) Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act of 1933 and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act of 1933 and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, Illumina, Inc. certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of San Diego, State of California on March 12, 2021.

ILLUMINA, INC.

By: /s/ FRANCIS A. DESOUZA

Francis A. deSouza
President and Chief Executive Officer
(Principal Executive Officer)

KNOW ALL PERSONS BY THESE PRESENTS that each person whose signature appears below constitutes and appoints Francis A. DeSouza and Sam A. Samad, and each of them, his or her true and lawful attorneys-in-fact and agents, with full power of substitution and resubstitution, for him or her and in his or her name, place and stead, in any and all capacities, to sign any and all amendments (including post-effective amendments) to this Form S-3 registration statement, and to file the same, with all exhibits thereto, and all documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully and to all intents and purposes as he or she might or could do in person hereby ratifying and confirming that said attorneys-in-fact and agents, and each of them, or the substitute or substitutes of any of them, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons, in the capacities indicated on March 12, 2021.

<u>Signature</u>	<u>Title</u>
<u>/s/ FRANCIS A. DESOUZA</u> Francis A. deSouza	President, Chief Executive Officer and Director (Principal Executive Officer)
<u>/s/ SAM A. SAMAD</u> Sam A. Samad	Senior Vice President and Chief Financial Officer (Principal Financial Officer)
<u>/s/ KAREN MCGINNIS</u> Karen McGinnis	Vice President and Chief Accounting Officer (Principal Accounting Officer)
<u>/s/ JAY T. FLATLEY</u> Jay T. Flatley	Chairman of the Board of Directors
<u>/s/ FRANCES ARNOLD</u> Frances Arnold, Ph.D.	Director
<u>/s/ CAROLINE D. DORSA</u> Caroline D. Dorsa	Director
<u>/s/ ROBERT S. EPSTEIN</u> Robert S. Epstein, Ph.D.	Director

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<hr/> <p>/s/ SCOTT GOTTLIEB Scott Gottlieb, M.D.</p> <hr/>	Director
<hr/> <p>/s/ GARY S. GUTHART Gary S. Guthart, Ph.D.</p> <hr/>	Director
<hr/> <p>/s/ PHILIP W. SCHILLER Philip W. Schiller</p> <hr/>	Director
<hr/> <p>/s/ SUSAN E. SIEGEL Susan E. Siegel</p> <hr/>	Director
<hr/> <p>/s/ JOHN W. THOMPSON John W. Thompson</p> <hr/>	Director

ILLUMINA, INC., Issuer

and

U.S. BANK NATIONAL ASSOCIATION, Trustee

INDENTURE

Dated as of March 12, 2021

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THIS INDENTURE, dated as of March 12, 2021 between ILLUMINA, INC. (the “**Issuer**”) and U.S. BANK NATIONAL ASSOCIATION, as trustee (the “**Trustee**”),

WITNESSETH:

WHEREAS, for its lawful corporate purposes, the Issuer has duly authorized the execution and delivery of the Indenture to provide for the issuance of unsecured debt securities in one or more series (the “**Securities**”) up to such principal amount or amounts as may from time to time be authorized in accordance with the terms of the Indenture and to provide, among other things, for the authentication, delivery and administration thereof;

WHEREAS, all things necessary to make the Indenture a valid indenture and agreement according to its terms have been done;

WHEREAS, the Indenture is subject to, and will be governed by, the provisions of the Trust Indenture Act (as defined herein) that are required to be a part of and govern indentures qualified under the Trust Indenture Act; and

NOW, THEREFORE, in consideration of the premises and the purchases of the Securities by the holders thereof, the Issuer and the Trustee mutually covenant and agree for the equal and proportionate benefit of the respective holders from time to time of the Securities as follows:

ARTICLE 1
DEFINITIONS

Section 1.01. *Certain Terms Defined; Rules of Construction.* The following terms (except as otherwise expressly provided or unless the context otherwise clearly requires) for all purposes of the Indenture and of any indenture supplemental hereto shall have the respective meanings specified in this Section. All other terms used in the Indenture that are defined in the Trust Indenture Act, or the definitions of which are referred to in the Trust Indenture Act, including terms defined therein by reference to the Securities Act (except as herein otherwise expressly provided or unless the context otherwise clearly requires), shall have the meanings assigned to such terms in the Trust Indenture Act and in the Securities Act as in force at the date of the Indenture. All accounting terms used herein and not expressly defined shall have the meanings assigned to such terms in accordance with generally accepted accounting principles, and the term “**generally accepted accounting principles**” means such accounting principles as are generally accepted at the time of any computation. The words “**herein**”, “**hereof**” and “**hereunder**” and other words of similar import refer to the Indenture as a whole and not to any particular Article, Section or other subdivision. The terms defined in this Article have the meanings assigned to them in this Article and include the plural as well as the singular. Except as otherwise expressly provided or unless the context otherwise clearly requires, references to

agreements or instruments, or to statutes or regulations, are to such agreements or instruments, or statutes or regulations, as amended from time to time (or to successor statutes and regulations).

“**Agent Member**” means a member of, or a participant in, the Depository.

“**Attributable Debt**” has the meaning assigned to such term in Section 3.10.

“**Authenticating Agent**” means an authenticating agent with respect to any of the series of Securities appointed with respect to all or any series of the Securities by the Trustee pursuant to Section 2.12.

“**Bankruptcy Law**” means Title 11 of the United States Code or any similar Federal or State law for the relief of debtors.

“**Board of Directors**” means either the Board of Directors of the Issuer or any committee of such Board duly authorized to act hereunder.

“**Business Day**” means, with respect to any Security, any day other than a Saturday, a Sunday, or any other day on which banking institutions in The City of New York or, with respect to any payment on the Securities, a place of payment, are authorized or required by law, regulation, or executive order to close.

“**Commission**” means the United States Securities and Exchange Commission, as from time to time constituted, created under the Exchange Act, or if at any time after the execution and delivery of the Indenture such Commission is not existing and performing the duties now assigned to it under the Trust Indenture Act, then the body performing such duties on such date.

“**company**” means a corporation or a limited liability company.

“**Consolidated Net Tangible Assets**” has the meaning assigned to such term in Section 3.10.

“**Corporate Trust Office**” means the office of the Trustee located at 633 West Fifth Street, 24th Floor, Los Angeles, CA 90071, Attn: L. Costales (Illumina), or such other address as the Trustee may designate from time to time by notice to the Issuer.

“**Depository**” means, with respect to Securities of any series, for which the Issuer shall determine that such Securities will be issued as a Global Security, The Depository Trust Company, New York, New York, another clearing agency, or any successor registered as a clearing agency under the Exchange Act, or other applicable statute or regulation, which, in each case, shall be designated by the Issuer pursuant to either Section 2.01 or Section 2.13.

“**Event of Default**” has the meaning assigned to such term in Section 4.01.

“**Exchange Act**” means the Securities Exchange Act of 1934 and any statute successor thereto, in each case as amended from time to time, and the rules and regulations of the Commission promulgated thereunder.

“**Finance Lease**” has the meaning assigned to such term in Section 3.10.

“**GAAP**” has the meaning assigned to such term in Section 3.10.

“**given**,” with respect to any notice to be given to a Holder pursuant to this Indenture, shall mean notice (x) given to the Depository (or its designee) pursuant to the standing instructions from the Depository or its designee, including by electronic mail in accordance with accepted practices or procedures at the Depository (in the case of a Global Security) or (y) mailed to such Holder by first class mail, postage prepaid, at its address as it appears on the Register, in the case of a certificated Security, in each case in accordance with Section 10.04. Notice so “given” shall be deemed to include any notice to be “**mailed**” or “**delivered**,” as applicable, under this Indenture.

“**Global Security**” means, with respect to any series of Securities, a Security executed by the Issuer and delivered by the Trustee to the Depository or pursuant to a safekeeping agreement with the Depository, all in accordance with the Indenture, which shall be registered in global form without interest coupons in the name of the Depository or its nominee.

“**Governmental Obligations**” means securities that are (i) direct obligations of the United States of America for the payment of which its full faith and credit is pledged or (ii) obligations of a Person controlled or supervised by and acting as an agency or instrumentality of the United States of America, the payment of which is unconditionally guaranteed as a full faith and credit obligation by the United States of America that, in either case, are not callable or redeemable at the option of the issuer thereof, and shall also include a depository receipt issued by a bank (as defined in Section 3(a)(2) of the Securities Act) as custodian with respect to any such Governmental Obligation or a specific payment of principal of or interest on any such Governmental Obligation held by such custodian for the account of the holder of such depository receipt; provided however, that (except as required by law) such custodian is not authorized to make any deduction from the amount payable to the holder of such depository receipt from any amount received by the custodian in respect of the Governmental Obligation or the specific payment of principal of or interest on the Governmental Obligation evidenced by such depository receipt.

“**Holder**” means the registered holder of any Security on the books of the Registrar.

“**Indebtedness**” has the meaning assigned to such term in Section 3.10.

“**Indenture**” means this instrument as originally executed and delivered or, if amended or supplemented as herein provided, as so amended or supplemented or both, and shall include the forms and terms of particular series of Securities established as contemplated hereunder.

“Interest Payment Date”, when used with respect to any installment of interest on a Security of a particular series, means the date specified in such Security or in a Resolution of the Board of Directors or in an indenture supplemental hereto with respect to such series as the fixed date on which an installment of interest with respect to Securities of that series is due and payable.

“Issue Date” means the date on which the Securities are originally issued.

“Issuer” means, unless otherwise explicitly provided herein, the Person named as the “Issuer” in the first paragraph of this instrument until a successor Person shall have become such pursuant to the applicable provisions of this Indenture, and thereafter **“Issuer”** shall mean such successor Person.

“Issuer Order” has the meaning assigned to such term in Section 2.04.

“Lien” has the meaning assigned to such term in Section 3.10.

“Notice of Default” has the meaning assigned to such term in Section 4.01.

“Offering Document” has the meaning assigned to such term in Section 3.10.

“Officer’s Certificate” means a certificate signed on behalf of the Issuer by its chairman of the Board of Directors, chief executive officer, chief financial officer, principal accounting officer, treasurer, assistant treasurer, president, any vice president, controller, secretary, any assistant secretary, general counsel or deputy general counsel of the Issuer.

“Opinion of Counsel” means an opinion in writing signed by legal counsel, who may be an employee of or counsel to the Issuer, or other counsel who is reasonably acceptable to the Trustee.

“Original Issue Discount Security” means any Security that provides for an amount less than the principal amount thereof to be due and payable upon a declaration of acceleration of the maturity thereof pursuant to Section 4.01.

“Outstanding”, when used with reference to Securities, shall, subject to the provisions of Section 6.04, mean, as of any particular time, all Securities authenticated and delivered by the Trustee under the Indenture, except:

(a) Securities cancelled by the Trustee or accepted by the Trustee for cancellation;

(b) Securities, or portions thereof, for the payment or redemption of which moneys in the necessary amount to pay all amounts then due shall have been deposited in trust with the Trustee or with any paying agent (other than the Issuer) or shall have been set aside, segregated and held in trust by the Issuer for the Holders of such Securities (if

the Issuer shall act as its own paying agent), provided that if such Securities, or portions thereof, are to be redeemed prior to the maturity thereof, notice of such redemption shall have been given as herein provided, or provision satisfactory to the Trustee shall have been made for giving such notice; and

(c) Securities in substitution for which other Securities shall have been authenticated and delivered, or which shall have been paid, pursuant to the terms of Section 2.09 unless and until the Trustee and the Issuer receive proof satisfactory to them that the substituted Security is held by a *bona fide* purchaser.

In determining whether the Holders of the requisite principal amount of Outstanding Securities of any or all series have given any request, demand, authorization, direction, notice, consent or waiver hereunder, the principal amount of an Original Issue Discount Security that shall be deemed to be Outstanding for such purposes shall be the amount of the principal thereof that would be due and payable as of the date of such determination upon a declaration of acceleration of the maturity thereof pursuant to Section 4.01.

“**Patriot Act**” means the Uniting and Strengthening America by Providing Appropriate Tools Required to Intercept and Obstruct Terrorism Act of 2001, Pub. L. 107-56, as amended, and signed into law October 26, 2001.

“**Person**” means any individual, corporation, limited liability company, partnership, joint venture, association, joint stock company, trust, unincorporated organization, or government or any agency or political subdivision thereof or other similar entity.

“**principal**” whenever used with reference to the Securities or any Security or any portion thereof, shall be deemed to include “and premium, if any”.

“**Principal Property**” has the meaning assigned to such term in Section 3.10.

“**Property**” has the meaning assigned to such term in Section 3.10.

“**Register**” has the meaning assigned to it in Section 2.08.

“**Registrar**” means a Person engaged to maintain the Register.

“**Resolution of the Board of Directors**” means a copy of the resolution certified by the secretary or an assistant secretary of the Issuer to have been duly adopted by the Board of Directors and to be in full force and effect on the date of such certification.

“**Responsible Officer**” when used with respect to the Trustee means any officer of the Trustee within the Corporate Trust Office of the Trustee, including any vice president, assistant vice president, assistant secretary, assistant treasurer, trust officer or any other officer of the Trustee who customarily performs functions similar to those performed by the Persons who at

the time shall be such officers who shall have direct responsibility for the administration of the Indenture, or with respect to a particular matter relating to this Indenture, any other officer of the Trustee to whom such matter is referred because of such officer's knowledge of and familiarity with the particular subject.

"Sale and Leaseback Transaction" means any arrangement with any Person providing for the leasing by the Issuer or any Subsidiary of the Issuer of any Principal Property that has been or is to be sold or transferred by the Issuer or such Subsidiary, as the case may be, to such Person.

"Securities Act" means the Securities Act of 1933 and any statute successor thereto, in each case as amended from time to time, and the rules and regulations of the Commission promulgated thereunder.

"Security" or **"Securities"** has the meaning stated in the first recital of the Indenture, or, as the case may be, Securities that have been authenticated and delivered under the Indenture.

"Significant Subsidiary" means a Subsidiary of the Issuer that is a "significant subsidiary" as defined under Rule 1-02(w) of Regulation S-X under the Exchange Act (or any successor rule).

"Subsidiary" has the meaning assigned to such term in Section 3.10.

"Surviving Entity" has the meaning assigned to such term in Section 8.01.

"Trust Indenture Act" means the Trust Indenture Act of 1939, as amended, as in force at the date as of which this instrument was executed; provided, however, that in the event the Trust Indenture Act of 1939 is amended after such date, "Trust Indenture Act" means, to the extent required by any such amendment, the Trust Indenture Act of 1939 as so amended.

"Trustee" means the Person identified as "Trustee" in the first paragraph hereof and any successor trustee under the Indenture pursuant to Article 5.

"vice president" when used with respect to the Issuer, means any vice president, whether or not designated by a number or a word or words added before or after the title of "vice president".

"Yield to Maturity" means the yield to maturity on a series of securities, calculated at the time of issuance of such series, or, if applicable, at the most recent redetermination of interest on such series, and calculated in accordance with accepted financial practice.

ARTICLE 2
SECURITIES

Section 2.01. *Forms Generally.* The Securities of each series shall be substantially in such form (not inconsistent with the Indenture) as shall be established by or pursuant to a Resolution of the Board of Directors (or by an officer duly authorized by any such Resolution) and set forth in an Officer's Certificate, or in one or more indentures supplemental hereto, in each case with such appropriate insertions, omissions, substitutions and other variations as are required or permitted by the Indenture and may have imprinted or otherwise reproduced thereon such legends, notations or endorsements as may be required to comply with any law or with any rules or regulations pursuant thereto, or with any rules of any securities exchange or to conform to general usage, all as may be determined by the officer executing such Securities, as evidenced by such officer's execution of the Securities.

The definitive Securities shall be printed, lithographed or engraved on steel engraved borders or may be produced in any other manner, all as determined by the officer executing such Securities, as evidenced by such officer's execution of such Securities.

Section 2.02. *Form of Trustee's Certification of Authentication.* The Trustee's certificate of authentication on all Securities shall be in substantially the following form:

This is one of the Securities of the series designated herein and referred to in the within-mentioned Indenture.

U.S. Bank National Association,
as Trustee

by: _____
Authorized Signatory

Section 2.03. *Amount Unlimited; Issuable in Series.* Subject to compliance with the representations, warranties and covenants set forth herein, in the Officer's Certificate, in any indenture supplemental hereto and in any amendment hereto or thereto, the aggregate principal amount of Securities which may be authenticated and delivered under the Indenture is unlimited.

The Securities may be issued in one or more series. There shall be established in or pursuant to a Resolution of the Board of Directors and set forth in an Officer's Certificate, or established in one or more indentures supplemental hereto, prior to the issuance of Securities of any series:

- (a) the title of the Securities of the series (which shall distinguish the Securities of the series from all other Securities);

(b) any limit upon the aggregate principal amount of the Securities of the series that may be authenticated and delivered under the Indenture (except for Securities authenticated and delivered upon registration of transfer of, or in exchange for, or in lieu of, other Securities of the series pursuant to Section 2.08, 2.09, 2.11 or 11.03);

(c) the date or dates on which the principal of the Securities of the series is payable;

(d) the rate or rates at which the Securities of the series shall bear interest, if any, or the method by which such rate shall be determined, the date or dates from which such interest shall accrue, the Interest Payment Dates on which such interest shall be payable and the record dates for the determination of Holders to whom interest is payable on such Interest Payment Dates;

(e) the right, if any, to extend the interest payment periods and the duration of such extension;

(f) the place or places where the principal of and any interest on Securities of the series shall be payable (if other than as provided in Section 3.02);

(g) the price or prices at which, the period or periods within which and the terms and conditions upon which Securities of the series may be redeemed, in whole or in part, at the option of the Issuer;

(h) the obligation, if any, of the Issuer to redeem, purchase or repay Securities of the series at the option of a Holder thereof and the price or prices at which and the period or periods within which and the terms and conditions upon which Securities of the series shall be redeemed, purchased or repaid, in whole or in part, pursuant to such obligation;

(i) if other than minimum denominations of \$2,000 and any multiple of \$1,000 in excess thereof, the denominations in which Securities of the series shall be issuable;

(j) the percentage of the principal amount at which the Securities will be issued, and, if other than the principal amount thereof, the portion of the principal amount of Securities of the series which shall be payable upon declaration of acceleration of the maturity thereof pursuant to Section 4.01;

(k) whether the Securities are issuable under Rule 144A or Regulation S and, in such case, any provisions unique to such form of issuance including any transfer restrictions or exchange and registration rights;

(l) any and all other terms of the series (which terms shall not be inconsistent with the provisions of the Indenture) including any terms which may be required by or

advisable under U.S. law or regulations or advisable in connection with the marketing of Securities in that series;

(m) whether the Securities are issuable as a Global Security and, in such case, the identity for the Depositary for such series;

(n) any deletion from, modification of or addition to the Events of Default or covenants provided for with respect to the Securities of the series;

(o) any provisions granting special rights to Holders when a specified event occurs;

(p) whether and under what circumstances the Issuer will pay additional amounts on the Securities of the series held by a Person who is not a U.S. Person in respect of any tax, assessment or governmental charge withheld or deducted and, if so, whether the Issuer will have the option to redeem the Securities of the series rather than pay such additional amounts;

(q) any special tax implications of the Securities, including provisions for Original Issue Discount Securities;

(r) any trustees, authenticating or paying agents, transfer agents or registrars or any other agents with respect to the Securities of such series;

(s) any guarantor or co-issuer of the Securities of the series;

(t) any special interest premium or other premium;

(u) whether the Securities are convertible or exchangeable into common stock or other equity securities of the Issuer or a combination thereof and the terms and conditions upon which such conversion or exchange shall be effected; and

(v) the currency in which payments shall be made, if other than U.S. dollars.

All Securities of any one series shall be substantially identical except as to denomination and except as may otherwise be provided in or pursuant to such Resolution of the Board of Directors and set forth in an Officer's Certificate, or in any indenture supplemental hereto. All Securities of any one series need not be issued at the same time, and unless otherwise provided, a series may be reopened for issuance of additional Securities of such series without notice to or the consent of the Holders (or beneficial owners); provided that if such additional Securities are not fungible with the Securities for U.S. federal income tax purposes, such additional Securities will have one or more separate CUSIP numbers. Additional Securities of such series will be consolidated with, and be treated as a single series with, Securities then Outstanding of such series (except as set forth in the immediately preceding sentence).

Any additional Securities shall be established in or pursuant to a Resolution of the Board of Directors and set forth in an Officer's Certificate, or established in one or more indentures supplemental hereto, prior to the issuance of Securities of any series the following information:

- (i) the aggregate principal amount of such additional Securities to be authenticated and delivered pursuant to the Indenture;
- (ii) the issue price, the issue date and the CUSIP number, if any, of such additional Securities; and
- (iii) whether such additional Securities shall be transfer restricted Securities or have any registration or exchange rights.

Section 2.04. *Authentication and Delivery of Securities.* At any time and from time to time after the execution and delivery of the Indenture, the Issuer may deliver Securities of any series executed by the Issuer to the Trustee for authentication, together with a written order of the Issuer, signed in the name of the Issuer by any one of the following officers: chairman of the Board of Directors, chief executive officer, chief financial officer, principal accounting officer, treasurer, assistant treasurer, president, any vice president, secretary, controller, general counsel or deputy general counsel of the Issuer (an "**Issuer Order**"). The Trustee, in accordance with such written order, shall authenticate and deliver such Securities.

In authenticating such Securities and accepting the additional responsibilities under the Indenture in relation to such Securities, the Trustee shall be entitled to receive and (subject to Section 5.08) shall be fully protected in relying upon:

(a) a copy of any Resolution or Resolutions of the Board of Directors relating to such series, in each case certified by the secretary or an assistant secretary of the Issuer;

(b) an executed supplemental indenture, if any;

(c) in lieu of a supplemental indenture, an Officer's Certificate setting forth the form and terms of the Securities as required pursuant to Section 2.01 and 2.03, respectively, and addressing the matters required by and prepared in accordance with Section 10.05;

(d) an Opinion of Counsel, addressing the matters required by and prepared in accordance with Section 10.05, and stating that

(i) the form or forms and terms of such Securities have been established by or pursuant to a Resolution of the Board of Directors (or by an officer duly authorized by any such Resolution) and set forth in an Officer's Certificate, or by a supplemental indenture as permitted by Section 2.01 and 2.03 in conformity with the provisions of the Indenture; and

(ii) such Securities, when authenticated and delivered by the Trustee and issued by the Issuer in the manner and subject to any conditions specified in such Opinion of Counsel, will constitute valid and binding obligations of the Issuer entitled to the benefits of the Indenture, and enforceable against the Issuer in accordance with their terms, except to the extent that enforcement thereof may be limited by bankruptcy, insolvency, reorganization, moratorium, fraudulent conveyance or similar laws now or hereafter in effect relating to creditor's rights generally, and general principles of equity (regardless of whether enforceability is considered in a proceeding in equity or at law).

The Trustee shall have the right to decline to authenticate and deliver any Securities under this section if the Trustee, being advised by counsel, determines that such action may not lawfully be taken by the Issuer or if the Trustee shall determine that such action would expose the Trustee to personal liability.

Section 2.05. *Execution of Securities.* The Securities shall be signed in the name of the Issuer by any one of its chairman of the Board of Directors, chief executive officer, chief financial officer, principal accounting officer, treasurer, assistant treasurer, president, any vice president, general counsel. Such signature may be the manual, facsimile or other electronic signature of the present or any future such officer. Typographical and other minor errors or defects in any such signature shall not affect the validity or enforceability of any Security that has been duly authenticated and delivered by the Trustee.

In case any officer of the Issuer who shall have signed any of the Securities shall cease to be such officer before the Security so signed shall be authenticated and delivered by the Trustee or disposed of by the Issuer, such Security nevertheless may be authenticated and delivered or disposed of as though the person who signed such Security had not ceased to be such officer of the Issuer; and any Security may be signed on behalf of the Issuer by such person as, at the actual date of the execution of such Security, shall be the proper officer of the Issuer, although at the date of the execution and delivery of the Indenture any such person was not such an officer.

Section 2.06. *Certificate of Authentication.* Only such Securities as shall bear thereon a certificate of authentication substantially in the form recited herein, executed by the Trustee by the manual signature of one of its authorized signatories, shall be entitled to the benefits of the Indenture or be valid or obligatory for any purpose. Such certificate by the Trustee upon any Security executed by the Issuer shall be conclusive evidence that the Security so authenticated has been duly authenticated and delivered hereunder and that the Holder is entitled to the benefits of the Indenture.

Section 2.07. *Denomination and Date of Securities; Payments of Interest.* The Securities shall be issuable as registered securities without coupons and in denominations as shall be specified as contemplated by Section 2.03. In the absence of any such specification with respect to the Securities of any series, the Securities of such series shall be issuable in minimum denominations of \$2,000 and any multiple of \$1,000 in excess thereof. The Securities shall be

numbered, lettered, or otherwise distinguished in such manner or in accordance with such plan as the officer of the Issuer executing the same may determine with the approval of the Trustee as evidenced by the execution and authentication thereof.

The principal of and the interest on the Securities of any series, shall be payable in the coin or currency of the United States of America that at the time is legal tender for public and private debt, at the office or agency of the Issuer maintained for that purpose.

Each Security shall be dated the date of its authentication, shall bear interest, if any, from the date and shall be payable on the dates, in each case, established as contemplated by Section 2.03.

The Person in whose name any Security of any series is registered at the close of business on any record date applicable to a particular series with respect to any Interest Payment Date for such series shall be entitled to receive the interest, if any, payable on such Interest Payment Date notwithstanding any transfer or exchange of such Security subsequent to the record date and prior to such Interest Payment Date, except if and to the extent the Issuer shall default in the payment of the interest due on such Interest Payment Date for such series, in which case such defaulted interest shall be paid to the Persons in whose names Outstanding Securities for such series are registered at the close of business on a subsequent record date (which shall be not less than five Business Days prior to the date of payment of such defaulted interest) established by notice given by mail or electronically by or on behalf of the Issuer to the Holders not less than 15 days preceding such subsequent record date. The term “**record date**” as used with respect to any Interest Payment Date (except a date for payment of defaulted interest) shall mean the date specified as such in the terms of the Securities of any particular series, or, if no such date is so specified, if such Interest Payment Date is the first day of a calendar month, the fifteenth day of the next preceding calendar month or, if such Interest Payment Date is the fifteenth day of a calendar month, the first day of such calendar month, whether or not such record date is a Business Day.

Section 2.08. *Registration, Transfer and Exchange.* The Issuer may appoint one or more Registrars. The Issuer initially appoints the Trustee as Registrar. The Issuer will keep or cause to be kept at each office or agency to be maintained for the purpose as provided in Section 3.02 a register or registers (the “**Register**”) in which, subject to such reasonable regulations as it may prescribe, it will register, and will register the transfer of, Securities as in this Article provided. The Register shall be in written form in the English language or in any other form capable of being converted into such form within a reasonable time. At all reasonable times the Register shall be open for inspection by the Trustee.

Upon due presentation for registration of transfer of any Security of any series at any such office or agency to be maintained for the purpose as provided in Section 3.02, the Issuer shall execute and the Trustee shall authenticate and deliver in the name of the transferee or transferees a new Security or Securities of the same series in authorized denominations for a like aggregate principal amount.

Any Security or Securities of any series may be exchanged for a Security or Securities of the same series in other authorized denominations, in an equal aggregate principal amount; *provided* that if Securities of a series bear different CUSIP numbers, Securities of such series may not be exchanged for Securities of such series with a different CUSIP number unless such Securities are fungible for U.S. federal income tax and securities law purposes and otherwise in compliance with any transfer restrictions applicable to such Securities. Securities of any series to be exchanged shall be surrendered at any office or agency to be maintained by the Issuer for the purpose as provided in Section 3.02, and the Issuer shall execute and the Trustee shall authenticate and deliver in exchange therefor the Security or Securities of the same series which the Holder making the exchange shall be entitled to receive, bearing numbers not contemporaneously Outstanding.

All Securities presented for registration of transfer, exchange, redemption or payment shall (if so required by the Issuer or the Trustee) be duly endorsed by, or be accompanied by a written instrument or instruments of transfer in form attached to the form of Security for the applicable series executed by, the Holder or his attorney duly authorized in writing, together with signature guarantees for such Holder or attorney.

The Issuer or the Trustee may require payment of a sum sufficient to cover any tax or other governmental charge that may be imposed in connection with any exchange or registration of transfer of Securities. No service charge shall be made for any such transaction.

Neither the Issuer nor the Trustee shall be required to exchange or register a transfer of (a) any Securities of any series for a period of 15 days preceding the first mailing of notice of redemption of Securities of such series to be redeemed, or (b) any Securities selected, called or being called for redemption except, in the case of any Security where public notice has been given that such Security is to be redeemed in part, the portion thereof not so to be redeemed.

In addition to the transfer requirements provided in this Section 2.08, any Security or Securities will be subject to such further transfer restrictions as may be contained in an Officer's Certificate or indenture supplemental hereto applicable to such Securities.

All Securities issued upon any transfer or exchange of Securities shall be valid obligations of the Issuer, evidencing the same debt, and entitled to the same benefits under the Indenture, as the Securities surrendered upon such transfer or exchange.

Notwithstanding anything contained herein to the contrary, neither the Trustee nor the Registrar shall be responsible for ascertaining whether any transfer complies with the registration provisions of, or exemptions from, the Securities Act, applicable state securities law or other applicable law.

Section 2.09. *Mutilated, Defaced, Destroyed, Lost and Stolen Securities.* In case any Security shall become mutilated, defaced or be destroyed, lost or stolen, the Issuer in its discretion may execute, and upon the receipt of an Issuer Order, the Trustee shall authenticate

and deliver, a new Security of the same series, bearing a number not contemporaneously Outstanding, in exchange and substitution for the mutilated or defaced Security, or in lieu of and substitution for the Security so destroyed, lost or stolen. In every case the applicant for a substitute Security shall furnish to the Issuer and to the Trustee and any agent of the Issuer or the Trustee such security or indemnity as may be required by them to indemnify and defend and to save each of them harmless and, in every case of destruction, loss or theft, evidence to their satisfaction of the destruction, loss or theft of such Security and of the ownership thereof.

Upon the issuance of any substitute Security, the Issuer or the Trustee may require the payment of a sum sufficient to cover any tax or other governmental charge that may be imposed in relation thereto and any other expenses (including the fees and expenses of the Trustee and its agents and attorneys) connected therewith. In case any Security which has matured or is about to mature or has been called for redemption in full shall become mutilated or defaced or be destroyed, lost or stolen, the Issuer may instead of issuing a substitute Security, pay or authorize the payment of the same (without surrender thereof except in the case of a mutilated or defaced Security), if the applicant for such payment shall furnish to the Issuer and to the Trustee and any agent of the Issuer or the Trustee such security or indemnity as any of them may require to save each of them harmless, and, in every case of destruction, loss or theft, the applicant shall also furnish to the Issuer and the Trustee and any agent of the Issuer or the Trustee evidence to their satisfaction of the destruction, loss or theft of such Security and of the ownership thereof. In case the mutilated, deleted, destroyed, or lost or stolen Security has become or is about to become due and payable, the Issuer in its discretion may pay the Security instead of issuing a substitute Security.

Every substitute Security of any series issued pursuant to the provisions of this section by virtue of the fact that any such Security is destroyed, lost or stolen shall constitute an additional contractual obligation of the Issuer, whether or not the destroyed, lost or stolen Security shall be at any time enforceable by anyone and shall be entitled to all the benefits of (but shall be subject to all the limitations of rights set forth in) the Indenture equally and proportionately with any and all other Securities of such series duly authenticated and delivered hereunder. All Securities shall be held and owned upon the express condition that, to the extent permitted by law, the foregoing provisions are exclusive with respect to the replacement or payment of mutilated, defaced or destroyed, lost or stolen Securities and shall preclude any and all other rights or remedies notwithstanding any law or statute existing or hereafter enacted to the contrary with respect to the replacement or payment of negotiable instruments or other securities without their surrender.

Section 2.10. *Cancellation of Securities; Disposal Thereof.* All Securities surrendered for payment, redemption, registration of transfer or exchange, or for credit against any payment in respect of a sinking or analogous fund, if surrendered to the Issuer or any agent of the Issuer or the Trustee, shall be delivered to the Trustee for cancellation or, if surrendered to the Trustee, shall be cancelled by it; and no Securities shall be issued in lieu thereof except as expressly permitted by any of the provisions of the Indenture. The Trustee shall dispose of the cancelled

Securities held by it in accordance with its procedures and applicable law. If the Issuer shall acquire any of the Securities, such acquisition shall not operate as a redemption or satisfaction of the indebtedness represented by such Securities unless and until the same are delivered to the Trustee for cancellation.

Section 2.11. *Temporary Securities.* Pending the preparation of definitive Securities for any series, the Issuer may execute and the Trustee shall, upon receipt of an Issuer Order, authenticate and deliver temporary Securities for such series (printed, lithographed, typewritten or otherwise reproduced, in each case in form satisfactory to the Trustee). Temporary Securities of any series shall be issuable as registered Securities without coupons, of any authorized denomination, and substantially in the form of the definitive Securities of such series but with such omissions, insertions and variations as may be appropriate for temporary Securities, all as may be determined by the Issuer. Temporary Securities may contain such reference to any provisions of the Indenture as may be appropriate. Every temporary Security shall be executed by the Issuer and be authenticated by the Trustee upon the same conditions and in substantially the same manner, and with like effect, as the definitive Securities. Without unreasonable delay the Issuer shall execute and shall furnish definitive Securities of such series and thereupon temporary Securities of such series may be surrendered in exchange therefor without charge at each office or agency to be maintained by the Issuer for that purpose pursuant to Section 3.02, and the Trustee shall, upon receipt of an Issuer Order, authenticate and deliver in exchange for such temporary Securities of such series a like aggregate principal amount of definitive Securities of the same series of authorized denominations. Until so exchanged, the temporary Securities of any series shall be entitled to the same benefits under the Indenture as definitive Securities of such series.

Section 2.12. *Authenticating Agent.* So long as any of the Securities of any series remain Outstanding there may be an Authenticating Agent for any or all such series of Securities which the Trustee shall have the right to appoint. Said Authenticating Agent shall be authorized to act on behalf of the Trustee to authenticate Securities of such series issued upon exchange, transfer or partial redemption or repurchase thereof, and Securities so authenticated shall be entitled to the benefits of the Indenture and shall be valid and binding for all purposes as if authenticated by the Trustee hereunder. All references in the Indenture to the authentication of Securities by the Trustee shall be deemed to include authentication by an Authenticating Agent for such series. Each Authenticating Agent shall be acceptable to the Issuer and shall be a corporation that has a combined capital and surplus of at least fifty million dollars (\$50,000,000), as most recently reported or determined by it, sufficient under the laws of any jurisdiction under which it is organized or in which it is doing business to conduct a trust business, and that is otherwise authorized under such laws to conduct such business and is subject to supervision or examination by Federal or State authorities. If at any time any Authenticating Agent shall cease to be eligible in accordance with these provisions, it shall resign immediately. Any Authenticating Agent may at any time resign by giving written notice of resignation to the Trustee and to the Issuer. The Trustee may at any time (and upon written request by the Issuer shall) terminate the agency of any Authenticating Agent by giving written notice of termination to such Authenticating Agent

and to the Issuer. Upon resignation, termination or cessation of eligibility of any Authenticating Agent, the Trustee may appoint an eligible successor Authenticating Agent acceptable to the Issuer. Any successor Authenticating Agent, upon acceptance of its appointment hereunder, shall become vested with all the rights, powers and duties of its predecessor hereunder as if originally named as an Authenticating Agent pursuant hereto. The Issuer agrees to pay to the Authenticating Agent from time to time reasonable compensation for its services.

Section 2.13. *Global Securities*. If the Issuer shall establish pursuant to Section 2.01 that the Securities of a particular series are to be issued as a Global Security, then the Issuer shall execute and the Trustee shall, in accordance with Section 2.04, authenticate and deliver, a Global Security that shall (i) represent, and be issued in a denomination or aggregate denominations equal to the aggregate principal amount of all the Securities to be represented by a Global Security, (ii) be registered in the name of the Depositary or its nominee, (iii) be delivered by the Trustee to the Depositary or pursuant to the Depositary's instruction and (iv) bear a legend substantially to the following effect: "Except as otherwise provided in Section 2.13 of the Indenture, this Security may be transferred, in whole but not in part, only to another nominee of the Depositary or to a successor Depositary or to a nominee of such successor Depositary."

Notwithstanding the provisions of Section 2.08, the Global Security of a series may be transferred, in whole but not in part and in the manner provided in Section 2.08, only to another nominee of the Depositary for such series, or to a successor Depositary for such series selected or approved by the Issuer or to a nominee of such successor Depositary.

Ownership of beneficial interests in a registered Global Security will be limited to Agent Members that have accounts with the Depositary or Persons that may hold interests through Agent Members. Upon the issuance of a registered Global Security, the Depositary will credit, on its book-entry registration and transfer system, the Agent Members' accounts with the respective principal or face amounts of the securities beneficially owned by the participants. Any dealers, underwriters or agents participating in the distribution of the Securities will designate the accounts to be credited. Ownership of beneficial interests in a Global Security will be shown on, and the transfer of ownership interests will be effected only through, records maintained by the Depositary, with respect to interests of Agent Members, and on the records of Agent Members, with respect to interests of Persons holding through Agent Members.

So long as the Depositary, or its nominee, is the registered owner of a registered Global Security, that Depositary or its nominee, as the case may be, will be considered the sole owner or Holder of the Securities represented by the Global Security for all purposes under the Indenture. Except as described in this Section 2.13, Agent Members will not be entitled to have the Securities represented by the Global Security registered in their names, will not receive or be entitled to receive physical delivery of the Securities in definitive form and will not be considered the owners or Holders of the Securities under the Indenture. Accordingly, each Agent Member owning a beneficial interest in a registered Global Security must rely on the procedures of the Depositary for that registered Global Security and, if that Person is not an Agent Member, on the procedures of the Agent Member through which the Person owns its

interest, to exercise any rights of a Holder under the Indenture. Notwithstanding the foregoing, the Depositary or its nominee may grant proxies and otherwise authorize any Person (including any Agent Member and any Person that holds a beneficial interest in a Global Security through an Agent Member) to take any action which a Holder is entitled to take under the Indenture or the Securities, and nothing herein will impair, as between the Depositary and its Agent Members, the operation of customary practices governing the exercise of the rights of a Holder of any Security.

Principal and interest payments on Securities represented by a Global Security registered in the name of the Depositary or its nominee will be made to the Depositary or its nominee, as the case may be, as the registered owner of the registered Global Security. None of the Issuer, the Trustee or any other agent of the Issuer, or any agent of the Trustee will have any responsibility or liability for any aspect of the records relating to payments made on account of beneficial ownership interests in the registered Global Security or for maintaining, supervising or reviewing any records relating to those beneficial ownership interests. The Trustee may rely and shall be fully protected in relying upon information furnished by the Depositary with respect to its members and any beneficial owners.

If at any time the Depositary for a series of the Securities notifies the Issuer that it is unwilling or unable to continue as Depositary for such series or if at any time the Depositary for such series shall no longer be registered or in good standing under the Exchange Act, or other applicable statute or regulation, and a successor Depositary for such series is not appointed by the Issuer within 90 days after the Issuer receives such notice or becomes aware of such condition, as the case may be, this Section 2.13 shall no longer be applicable to the Securities of such series and the Issuer will execute, and subject to Section 2.08, the Trustee will authenticate and deliver the Securities of such series in definitive registered form without coupons, in authorized denominations, and in an aggregate principal amount equal to the principal amount of the Global Security of such series in exchange for such Global Security. In addition, the Issuer may at any time determine that the Securities of any series shall no longer be represented by a Global Security and that the provisions of this Section 2.13 shall no longer apply to the Securities of such series. In such event the Issuer will execute and subject to Section 2.08, the Trustee, upon receipt of an Officer's Certificate evidencing such determination by the Issuer, will authenticate and deliver the Securities of such series in definitive registered form without coupons, in authorized denominations, and in an aggregate principal amount equal to the principal amount of the Global Security of such series in exchange for such Global Security. Upon the exchange of the Global Security for such Securities in definitive registered form without coupons, in authorized denominations, the Global Security shall be cancelled by the Trustee. Such Securities in definitive registered form issued in exchange for the Global Security pursuant to this Section 2.13 shall be registered in such names and in such authorized denominations as the Depositary, pursuant to instructions from its direct or indirect participants or otherwise, shall instruct the Trustee in writing. The Issuer and the Trustee shall be entitled to conclusively rely on such instructions from the Depositary. In connection with any proposed exchange involving a certificated Security, or any exchange of a certificated Security for a

Global Security or vice versa, the Holder of such certificated Security shall provide to the Trustee all information necessary to allow the Trustee to comply with any applicable tax reporting obligations, including without limitation any cost basis reporting obligations under Internal Revenue Code Section 6045.

Section 2.14. *CUSIP Numbers*. The Issuer in issuing the Securities may use “CUSIP” numbers (if then generally in use), and, if so, the Trustee shall use “CUSIP” numbers in notices of redemption as a convenience to Holders; provided that any such notice may state that no representation is made as to the correctness of such numbers either as printed on the Securities or as contained in any notice of a redemption and that reliance may be placed only on the other identification numbers printed on the Securities, and any such redemption shall not be affected by any defect in or omission of such numbers. The Issuer will promptly notify the Trustee in writing of any change in the “CUSIP” numbers.

ARTICLE 3

COVENANTS OF THE ISSUER

Section 3.01. *Payment of Principal and Interest*. (a) The Issuer covenants and agrees for the benefit of each series of Securities that it will duly and punctually pay or cause to be paid the principal of, and interest on, each of the Securities of such series at the place or places, at the respective times and in the manner provided in such Securities. The Issuer shall pay interest (including post-petition interest in any proceeding under any Bankruptcy Law) on overdue principal on each series of Securities at the rate specified in the terms of such series of Securities to the extent lawful; it shall pay interest (including post-petition interest in any proceeding under any Bankruptcy Law) on overdue installments of interest (without regard to any applicable grace period) at the same rate to the extent lawful. Unless otherwise provided in the Securities of any series, not later than 11:00 A.M. (New York City time) on the due date of any principal of or interest on any Securities, the Issuer will deposit with the Trustee (or paying agent) money in immediately available funds sufficient to pay such amounts, provided that if the Issuer or any affiliate of the Issuer is acting as paying agent, it will, on or before each due date, segregate and hold in a separate trust fund for the benefit of the Holders a sum of money sufficient to pay such amounts until paid to such Holders or otherwise disposed of as provided in the Indenture. In each case the Issuer will promptly notify the Trustee in writing of its compliance with this Section.

(b) An installment of principal or interest will be considered paid on the date due if the Trustee (or paying agent, other than the Issuer or any affiliate of the Issuer) holds on that date by 11:00 A.M. (New York City time) money designated for and sufficient to pay the installment. If the Issuer or any affiliate of the Issuer acts as paying agent, an installment of principal or interest will be considered paid on the due date only if paid to the Holders.

(c) Payments in respect of the Securities represented by the Global Security are to be made by wire transfer of immediately available funds to the account of the Depositary or its nominee. With respect to certificated Securities, the Issuer will make all payments by wire transfer of immediately available funds (A) to Holders holding certificated Securities having an aggregate principal amount of \$5,000,000 or less, by check mailed to the Holders of these Securities at their address as it appears in the Register and (B) to Holders holding certificated Securities having an aggregate principal amount of more than \$5,000,000, by wire transfer in immediately available funds to that Holder's account within the United States of America if such Holder has provided the Trustee or paying agent with the requisite information necessary to make such wire transfer, which application shall remain in effect until the Holder notifies, in writing, the paying agent to the contrary or, if no such account is specified, by mailing a check to each Holder's registered address.

Section 3.02. *Offices for Payments, etc.* So long as any of the Securities remain Outstanding, the Issuer will maintain in the contiguous United States of America, the following for each series: an office or agency (a) where the Securities may be presented for payment, (b) where the Securities may be presented for registration of transfer and for exchange as in the Indenture provided and (c) where notices and demands to or upon the Issuer in respect of the Securities or of the Indenture may be given or served. The Issuer will give to the Trustee written notice of the location of any such office or agency and of any change of location thereof. Unless otherwise specified in accordance with Section 2.03, the Issuer hereby initially designates the Corporate Trust Office of the Trustee, as the office to be maintained by it for each such purpose. In case the Issuer shall fail to so designate or maintain any such office or agency or shall fail to give such notice of the location or of any change in the location thereof, presentations and demands may be made and notices may be served at the applicable Corporate Trust Office of the Trustee and the Issuer hereby appoints the Trustee as its agent to receive all such presentations, notices and demands; *provided* that no office of the Trustee shall be a place for service of legal process on the Issuer.

Section 3.03. *Paying Agents.* Whenever the Issuer shall appoint a paying agent other than the Trustee with respect to the Securities of any series, it will cause such paying agent to execute and deliver to the Trustee an instrument in which such agent shall agree with the Trustee, subject to the provisions of this Section,

(a) that it will hold all sums received by it as such agent for the payment of the principal of or interest on the Securities of such series (whether such sums have been paid to it by the Issuer or by any other obligor on the Securities of such series) in trust for the benefit of the Holders of the Securities of such series or of the Trustee,

(b) that it will give the Trustee written notice of any failure by the Issuer (or by any other obligor on the Securities of such series) to make any payment of the principal of or interest on the Securities of such series when the same shall be due and payable,

(c) pay any such sums so held in trust by it to the Trustee upon the Trustee's written request at any time during the continuance of the failure referred to in clause 3.03(b) above, and

(d) that it will perform all other duties of paying agent as set forth in the Indenture.

The Issuer shall, on or prior to each due date of the principal of or interest on the Securities of such series, deposit with the paying agent a sum sufficient to pay such principal or interest so becoming due, and (unless such paying agent is the Trustee) the Issuer shall promptly notify the Trustee in writing of any failure to take such action.

If an Issuer shall act as its own paying agent with respect to the Securities of any series, it will, on or before each due date of the principal of or interest on the Securities of such series, set aside, segregate and hold in trust for the benefit of the Holders of the Securities of such series a sum sufficient to pay such principal or interest so becoming due. The Issuer will promptly notify the Trustee in writing of any failure to take such action.

Anything in this section to the contrary notwithstanding, the Issuer may at any time, for the purpose of obtaining a satisfaction and discharge with respect to one or more or all series of Securities hereunder, or for any other reason, pay or cause to be paid to the Trustee all sums held in trust for any such series by the Issuer or any paying agent hereunder, as required by this Section, such sums to be held by the Trustee upon the trusts herein contained.

Anything in this section to the contrary notwithstanding, the agreement to hold sums in trust as provided in this section is subject to the provisions of Section 9.05 and 9.06.

Upon any Event of Default under Section 4.01(d) or Section 4.01(e), the Trustee shall automatically be the paying agent.

Section 3.04. *Certificate of the Issuer.* The Issuer will furnish to the Trustee on or before 120 days after the end of each fiscal year (beginning with the fiscal year ending January 2, 2022) a brief certificate (which need not comply with Section 10.05) from the principal executive, financial or accounting officer or the Treasurer of the Issuer as to his or her knowledge of the Issuer's compliance with all conditions and covenants under the Indenture (such compliance to be determined without regard to any period of grace or requirement of notice provided under the Indenture), or if there has been a default, specifying the default and its nature and status and what action has been taken in respect thereof.

Section 3.05. *Reports by the Issuer.* The Issuer will furnish to the Trustee any document or report the Issuer is required to file with the Commission pursuant to Section 13 or Section 15(d) of the Exchange Act within 15 days after such document or report is filed with the Commission; provided that in each case the delivery of materials to the Trustee by electronic means or filing documents pursuant to the Commission's "EDGAR" system (or any successor electronic filing system) shall be deemed to constitute "filing" with the Trustee for purposes of this Section 3.05 and the Trustee shall have no obligation to determine whether or not such

documents or reports have been filed. Delivery of such documents or reports to the Trustee is for informational purposes only and the Trustee's receipt of such shall not constitute actual or constructive notice of any information contained therein or determinable from information contained therein, including the Issuer's compliance with any of its covenants hereunder (as to which the Trustee is entitled to rely exclusively on Officer's Certificates). The Trustee shall not be obligated to monitor or confirm, on a continuing basis or otherwise, the Issuer's compliance with the covenants hereunder or with respect to any reports or other documents filed with the Commission or on the Issuer's website hereunder, or to participate in any conference calls.

Section 3.06. *Limitation on Liens.* With respect to each series of Securities, other than as provided in this Section 3.06 and Section 3.08, the Issuer shall not, and shall not permit any of its Subsidiaries to, create or assume any Indebtedness secured by any Lien on any of the Issuer's or its Subsidiaries' respective Principal Properties unless each series of Outstanding Securities is secured by such Lien equally and ratably with, or prior to, the Indebtedness secured by such Lien for so long as such other Indebtedness shall be so secured.

This restriction does not apply to Indebtedness that is secured by:

- (1) Liens existing as of the initial Issue Date of a series of Securities;
- (2) Liens securing only one or more series of Securities;
- (3) Liens on Property (including shares of stock) in respect of Indebtedness or any other obligations of a Person existing at the time such Person becomes a Subsidiary of the Issuer or is merged into or consolidated with, or its assets are acquired by, the Issuer or any of its Subsidiaries, or within 120 days thereafter (provided that such Lien was not incurred in anticipation of such transaction and was in existence prior to such transaction) so long as such Lien extends only to such Property thereon and the Indebtedness so secured is not increased;
- (4) Liens to secure Indebtedness incurred for the purpose of all or any part of a Property's purchase price or cost of construction or additions, repairs, alterations, or other improvements; provided that (a) the principal amount of any Indebtedness secured by such Lien does not exceed 100% of such Property's purchase price or cost, (b) such Lien does not extend to or cover any other Property other than the Property so purchased, constructed, or on which such additions, repairs, alterations, or other improvements were so made and (c) such Lien is incurred prior to or within 270 days after the acquisition of such Property or the completion of construction or such additions, repairs, alterations, or other improvements and the full operation of such Property thereafter;

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- (5) Liens in favor of the United States of America or any state thereof or other political subdivision, or any agency or instrumentality of any of the foregoing, to secure certain payments pursuant to any contract or statute;
 - (6) Liens for taxes or assessments or other governmental charges or levies which are not overdue for a period exceeding 60 days unless such Liens are being contested in good faith and for which adequate reserves are being maintained, to the extent required by GAAP;
 - (7) title exceptions, easements, licenses, leases, and other similar Liens imposed by law or arising in the ordinary course of business and that do not materially impair the use of the property subject thereto;
 - (8) Liens to secure obligations under worker's compensation laws, unemployment compensation, old-age pensions, and other social security benefits or similar legislation;
 - (9) Liens arising out of legal proceedings, including Liens arising out of judgments or awards;
 - (10) warehousemen's, materialmen's, carrier's, landlord's, and other similar Liens for sums not overdue for a period exceeding 60 days unless such Liens are being contested in good faith and for which adequate reserves are being maintained, to the extent required by GAAP;
 - (11) Liens incurred to secure the performance of statutory obligations, surety or appeal bonds, performance or return-of-money bonds, insurance, self-insurance, or other obligations of a like nature incurred in the ordinary course of business;
 - (12) Liens that are rights of set-off relating to the establishment of depository relations with banks not given in connection with the issuance of Indebtedness;
 - (13) Liens arising out of conditional sale, title retention, consignment, or similar arrangements for the sale of goods entered into by the Issuer or any of its Subsidiaries in the ordinary course of business;
 - (14) Liens in favor of the Issuer or the favor of any of its Subsidiaries; or
 - (15) Liens to secure any extension, renewal, refinancing, or refunding (or successive extensions, renewals, refinancings, or refundings), in whole or in part, of any Indebtedness secured by Liens referred to in (1) through (14) above or Liens created in connection with any amendment, consent, or waiver

relating to such Indebtedness, so long as such Lien does not extend to any other property and the Indebtedness so secured does not exceed the fair market value (as determined by the Board of Directors) of the assets subject to such Liens at the time of such extension, renewal, refinancing, or refunding, or such amendment, consent, or waiver, as the case may be.

Section 3.07. *Limitation on Sale and Leaseback Transactions.* With respect to each series of Securities, other than as provided in this Section 3.07 and Section 3.08, the Issuer shall not, and shall not permit any of its Subsidiaries to, enter into any Sale and Leaseback Transaction with respect to any of its or their respective Principal Properties, the acquisition or completion of construction and commencement of full operations of which has occurred more than 270 days prior thereto:

- (1) such transaction was entered into prior to the Issue Date of such series of Securities;
- (2) such transaction was for the sale and leasing back to the Issuer of any Property by one of its Subsidiaries or was for the sale and leasing back of any Property between Subsidiaries of the Issuer;
- (3) the Issuer or such Subsidiary would be entitled to incur Indebtedness secured by a mortgage on the Property to be leased in an amount equal to the Attributable Debt with respect to such Sale and Leaseback Transaction without equally and ratably securing such series of Securities pursuant to Section 3.06 above;
- (4) the lease is for a period not in excess of five years, including renewal rights; or
- (5) the Issuer or such Subsidiary, prior to or within 270 days after the sale of such Property in connection with the Sale and Leaseback Transaction is completed, apply the net cash proceeds of the sale of the Property leased to:
 - (a) the retirement of Securities or debt of the Issuer ranking equally with Securities issued under this Indenture or to the retirement of any debt of a Subsidiary of the Issuer, or
 - (b) the acquisition of another Principal Property.

Section 3.08. Exempted Liens And Sale And Leaseback Transactions.

Notwithstanding the restrictions set forth in Section 3.06 and Section 3.07, the Issuer or any of its Subsidiaries may create or assume any Liens or enter into any Sale and Leaseback

Transactions not otherwise permitted by such Sections, if the sum of the following does not exceed 15% of Consolidated Net Tangible Assets:

- (1) the outstanding Indebtedness secured by such Liens (not including any Liens otherwise permitted under Section 3.06, which amount does not include any Liens permitted under the provisions of this Section 3.08); plus
- (2) all Attributable Debt in respect of such Sale and Leaseback Transaction entered into (not including any Sale and Leaseback Transactions otherwise permitted in Section 3.07, and which amount does not include any Sale and Leaseback Transactions permitted under the provisions of this Section 3.08),

measured, in each case, at the time such Lien is incurred or any such Sale and Leaseback Transaction is entered into by the Issuer or any of its Subsidiaries.

Section 3.09. *Existence*. Except as permitted under Article 8, the Issuer covenants to do or cause to be done all things necessary to preserve and keep in full force and effect its existence, rights and franchises; provided, however, that the Issuer shall not be required to preserve any right or franchise if it determines that its preservation is no longer desirable in the conduct of business.

Section 3.10. *Certain Definitions*. As used in Section 3.06, Section 3.07 and Section 3.09, the following terms have the meanings set forth below.

“**Attributable Debt**” means, with respect to a Sale and Leaseback Transaction, an amount equal to the lesser of (1) the fair market value of the property (as determined in good faith by the Board of Directors); and (2) the present value of the total net amount of rent payments to be made under the lease during its remaining term, discounted at the rate of interest set forth or implicit in the terms of the lease, compounded semi-annually.

“**Consolidated Net Tangible Assets**” means, as of any date of determination, the total assets of the Issuer and its Subsidiaries on a consolidated basis less (a) all current liabilities and (b) the value of all goodwill, trade names, trademarks, service marks, patents, unamortized debt discount and expense and other intangible assets, all as shown on or reflected in the Issuer’s most recent consolidated balance sheet (including, without duplication, the notes related thereto) prepared in accordance with GAAP.

“**Finance Lease**” means any Indebtedness represented by a lease obligation of a Person incurred with respect to real property or equipment acquired or leased by such Person and used in its business that is required to be recorded as a finance lease in accordance with GAAP.

“**GAAP**” means generally accepted accounting principles set forth in the opinions and pronouncements of the Public Company Accounting Oversight Board (United States) and statements and pronouncements of the Financial Accounting Standards Board or in such other

statements by such other entity as have been approved by a significant segment of the accounting profession, which are in effect as of the date of determination.

“**Indebtedness**” of any Person means, without duplication (1) any obligation of such Person for money borrowed, (2) any obligation of such Person evidenced by bonds, debentures, notes, or other similar instruments, (3) any reimbursement obligation of such Person in respect of letters of credit or other similar instruments which support financial obligations which would otherwise become Indebtedness, and (4) any obligation of such Person under any Finance Lease; provided, however, that “Indebtedness” of such Person shall not include any obligation of such Person to any Subsidiary of such Person or to any Person with respect to which such Person is a Subsidiary.

“**Lien**” means any pledge, mortgage, lien, encumbrance, or other security interest.

“**Principal Property**” means (1) any manufacturing or research and development facility, together with the land upon which it is erected and fixtures comprising a part thereof, owned or leased by the Issuer or any Subsidiary of the Issuer and located within the continental U.S. and having a net book value which, on the date the determination as to whether a property is a Principal Property is being made, exceeds 1.5% of the Issuer’s Consolidated Net Tangible Assets other than any such facility or a portion thereof which the Board of Directors determines in good faith, at any time on or prior to such date, is not of material importance to the total business conducted, or assets owned, by the Issuer and its Subsidiaries as an entirety or (2) any shares of stock or Indebtedness of any Subsidiary owning a Principal Property.

“**Property**” means any property or asset, whether real, personal or mixed, or tangible or intangible, including shares of capital stock.

“**Subsidiary**” of any specified Person means any corporation, limited liability company, limited partnership, association or other business entity of which more than 50% of the total voting power of shares of capital stock entitled (without regard to the occurrence of any contingency) to vote in the election of directors, managers or trustees thereof is at the time owned or controlled, directly or indirectly, by such Person or one or more of the other Subsidiaries of that Person or a combination thereof.

ARTICLE 4

REMEDIES OF THE TRUSTEE AND HOLDERS ON EVENT OF DEFAULT

Section 4.01. *Event of Default; Acceleration of Maturity; Waiver of Default.* An “Event of Default” under each series of Securities hereunder means the occurrence of one or more of the following events (whatever the reason for such Event of Default and whether it shall be voluntary or involuntary or be effected by operation of law or pursuant to any judgment, decree or order of any court or any order, rule or regulation of any administrative or governmental body):

(a) default in the payment of any installment of interest upon the applicable series of Securities as and when the same shall become due and payable, and continuance of such default for a period of 30 days or more;

(b) default in the payment of the principal, or premium, or sinking fund installment, if any, on the applicable series of Securities as and when the same shall become due and payable either at maturity, upon redemption, upon required repurchase, by declaration or otherwise;

(c) default in the performance, or breach, of any covenant in the Indenture, including any additional covenants set forth in any Officer's Certificate or supplemental indenture governing the applicable series of Securities, (other than defaults specified in clause (a) or (b) above), and continuance of such default or breach for a period of 90 days or more after the Issuer receives written notice from the Trustee or the Issuer and the Trustee receive written notice from the Holders of at least 25% in aggregate principal amount of the Securities of all such series affected then outstanding (all such series voting together as a single class) thereby, specifying such default or breach and requiring it to be remedied and stating that such notice is a "Notice of Default" hereunder;

(d) a court having jurisdiction in the premises shall enter a decree or order for relief in respect of the Issuer or any Significant Subsidiary in an involuntary case under any applicable bankruptcy, insolvency or other similar law now or hereafter in effect, or appointing a receiver, liquidator, assignee, custodian, trustee or sequestrator (or similar official) of the Issuer or any such Significant Subsidiary or for any substantial part of its Property or ordering the winding up or liquidation of the affairs of the Issuer or any such Significant Subsidiary, and such decree or order shall remain unstayed and in effect for a period of 60 consecutive days;

(e) the Issuer or any Significant Subsidiary shall commence a voluntary case under any applicable bankruptcy, insolvency or other similar law now or hereafter in effect, or consent to the entry of an order for relief in an involuntary case under any such law, or consent to the appointment of or taking possession by a receiver, liquidator, assignee, custodian, trustee or sequestrator (or similar official) of the Issuer or any such Significant Subsidiary or for any substantial part of its Property, or make any general assignment for the benefit of creditors;

(f) (1) a failure to make any payment at maturity, including any applicable grace period, on any Indebtedness of the Issuer (other than Indebtedness of Issuer owing to any of its Subsidiaries) outstanding in an amount in excess of \$250,000,000 and continuance of this failure to pay or (2) a default on any Indebtedness of the Issuer (other than Indebtedness owing to any of its Subsidiaries), which default results in the acceleration of such Indebtedness in an amount in excess of \$250,000,000 without such Indebtedness having been discharged or the acceleration having been cured, waived, rescinded or annulled, in the case of clause (1) or (2) above, for a period of 30 days after such failure to pay or acceleration, as applicable; provided, however, that if any failure, default or acceleration referred to in clause (1) or (2) above ceases or is cured, waived, rescinded or annulled, then the Event of Default hereunder will be deemed cured; and

(g) any other Event of Default provided in the Officer's Certificate, supplemental indenture or Resolution of the Board of Directors under which such series of Securities is issued or in the form of Security for such series.

If an Event of Default occurs and is continuing (other than an Event of Default described in Section 4.01(d) or Section 4.01(e) with respect to the Issuer), then, and in each and every such case, unless the principal of all of the Securities of such series shall have already become due and payable, the Trustee may, and at the direction of the Holders of not less than 25% in aggregate principal amount of the Securities of each such series affected that is then Outstanding hereunder (each such series voting together as a single class) by notice in writing to the Issuer (and to the Trustee if given by Holders), shall, declare the entire principal (or, if the Securities of such series are Original Issue Discount Securities, such portion of the principal amount as may be specified in the terms of such series) of all Outstanding Securities of each such series, together with all accrued and unpaid interest and premium, if any, to be due and payable immediately, and upon any such declaration the same shall become immediately due and payable.

If an Event of Default described in clauses Section 4.01(d) or Section 4.01(e) above occurs and is continuing with respect to the Issuer, then the entire principal amount of the Outstanding Securities will automatically become due immediately and payable without any declaration or other act on the part of the Trustee or any Holder.

Notwithstanding the foregoing, the Holders of a majority in principal amount of all series of the Outstanding Securities affected (all such series voting together as a single class) by written notice to the Issuer and to the Trustee may on behalf of the Holders of all Securities of such series waive all past defaults and rescind and annul a declaration of acceleration and its consequences if:

(i) all existing Events of Default, other than the nonpayment of the principal of and interest on the Securities that have become due solely by the declaration of acceleration, have been cured or waived, and

(ii) the rescission would not conflict with any judgment or decree.

For all purposes under the Indenture, if a portion of the principal of any Original Issue Discount Securities shall have been accelerated and declared due and payable pursuant to the provisions hereof, then, from and after such declaration, unless such declaration has been rescinded and annulled, the principal amount of such Original Issue Discount Securities shall be deemed, for all purposes hereunder, to be such portion of the principal thereof as shall be due and payable as a result of such acceleration, and payment of such portion of the principal thereof as shall be due and payable as a result of such acceleration, together with interest, if any, thereon and all other amounts owing thereunder, constitute payment in full of such Original Issue Discount Securities.

Section 4.02. *Collection of Indebtedness by Trustee; Trustee May Prove Debt.* The Issuer covenants that (a) in case default shall be made in the payment of any installment of interest on any of the Securities of any series when such interest shall have become due and payable, and such default shall have continued for a period of 30 days or (b) in case default shall be made in the payment of all or any part of the principal of any of the Securities of any series when the same shall have become due and payable, whether upon maturity of the Securities of such series or upon any redemption or by declaration or otherwise—then upon demand of the Trustee, the Issuer will pay to the Trustee for the benefit of the Holders of the Securities of such series the whole amount that then shall have become due and payable on all Securities of such series for principal or interest, as the case may be (with interest to the date of such payment upon the overdue principal and, to the extent that payment of such interest is enforceable under applicable law, on overdue installments of interest at the same rate as the rate of interest or Yield to Maturity (in the case of Original Issue Discount Securities) specified in the Securities of such series); and in addition thereto, such further amount as shall be sufficient to cover the costs, fees and expenses of collection, including reasonable compensation to the Trustee, its agents, attorneys and counsel, and any fees, expenses and liabilities incurred by the Trustee.

Until such demand is made by the Trustee, the Issuer may pay the principal of and interest on the Securities of any series to the Holders, whether or not the principal of and interest on the Securities of such series be overdue.

In case the Issuer shall fail forthwith to pay such amounts upon such demand, the Trustee, in its own name and as trustee of an express trust, shall be entitled and empowered to institute any action or proceedings at law or in equity for the collection of the sums so due and unpaid, and may prosecute any such action or proceedings to judgment or final decree, and may enforce any such judgment or final decree against the Issuer or other obligor upon such Securities and collect in the manner provided by law out of the Property of the Issuer or other obligor upon such Securities, wherever situated, the moneys adjudged or decreed to be payable.

In case there shall be pending proceedings relative to the Issuer or any other obligor upon the Securities under Bankruptcy Law, or in case a receiver, assignee or trustee in bankruptcy or reorganization, liquidator, sequestrator or similar official shall have been appointed for or taken possession of the Issuer or its Property or such other obligor, or in case of any other comparable judicial proceedings relative to the Issuer or other obligor upon the Securities of any series, or to the creditors or Property of the Issuer or such other obligor, the Trustee, irrespective of whether the principal of any Securities shall then be due and payable as therein expressed or by declaration or otherwise and irrespective of whether the Trustee shall have made any demand pursuant to the provisions of this Section, shall be entitled and empowered, by intervention in such proceedings or otherwise:

(a) to file and prove a claim or claims for the whole amount of principal and interest (or, if the Securities of any series are Original Issue Discount Securities, such portion of the principal amount as may be specified in the terms of such series) owing and unpaid in respect of the Securities of any series, and to file such other papers or

documents as may be necessary or advisable in order to have the claims of the Trustee including any claim for reasonable compensation to the Trustee and its agents, attorneys and counsel, and for reimbursement of all fees, expenses and liabilities incurred, and all advances made, by the Trustee and of the Holders allowed in any judicial proceedings relative to the Issuer or other obligor upon the Securities of any series, or to the creditors or Property of the Issuer or such other obligor,

(b) unless prohibited by applicable law and regulations, to vote on behalf of the Holders of the Securities of any series in any election of a trustee or a standby trustee in arrangement, reorganization, liquidation or other bankruptcy or insolvency proceedings or Person performing similar functions in comparable proceedings, and

(c) to collect and receive any moneys or other property payable or deliverable on any such claims, and to distribute all amounts received with respect to the claims of the Holders and of the Trustee on their behalf; and any trustee, receiver, or liquidator, custodian or other similar official is hereby authorized by each of the Holders to make payments to the Trustee, and, in the event that the Trustee shall consent to the making of payments directly to the Holders, to pay to the Trustee such amounts as shall be sufficient to cover reasonable compensation to the Trustee, and its agents, attorneys and counsel, and all other fees, expenses and liabilities incurred, and all advances made, by the Trustee and all other amounts due to the Trustee pursuant to Section 5.07. To the extent that such payment of compensation, reasonable expenses, advances and disbursements out of the estate in any such proceedings shall be denied for any reason, payment of the same shall be secured by a lien on, and shall be paid out of, any and all distributions, dividends, monies, securities and other property that the Holders of the Securities may be entitled to receive in such proceedings, whether in liquidation or under any plan of reorganization or arrangement or otherwise.

Nothing herein contained shall be deemed to authorize the Trustee to authorize or consent to or vote for or accept or adopt on behalf of any Holder any plan or reorganization, arrangement, adjustment or composition affecting the Securities of any series or the rights of any Holder thereof, or to authorize the Trustee to vote in respect of the claim of any Holder in any such proceeding except, as aforesaid, to vote for the election of a trustee in bankruptcy or similar Person.

All rights of action and of asserting claims under the Indenture, or under any of the Securities, may be enforced by the Trustee without the possession of any of the Securities or the production thereof on any trial or other proceedings relative thereto, and any such action or proceedings instituted by the Trustee shall be brought in its own name as trustee of an express trust, and any recovery of judgment, subject to the payment of the reasonable expenses, disbursements and compensation of the Trustee and its agents and attorneys, shall be for the ratable benefit of the holders of the Securities in respect of which such action was taken.

In any proceedings brought by the Trustee (and also any proceedings involving the interpretation of any provision of the Indenture to which the Trustee shall be a party) the Trustee shall be held to represent all the Holders of the Securities in respect to which such action was taken, and it shall not be necessary to make any Holders of such Securities parties to any such proceedings.

Section 4.03. *Application of Proceeds.* Any moneys and other property collected by the Trustee pursuant to this Article in respect of any series shall be applied in the following order at the date or dates fixed by the Trustee and, in case of the distribution of such moneys on account of principal or interest, upon presentation of the several Securities in respect of which moneys have been collected and stamping (or otherwise noting) thereon the payment, or issuing Securities of such series in reduced principal amounts in exchange for the presented Securities of like series if only partially paid, or upon surrender thereof if fully paid:

FIRST: To the payment of all amounts due to Trustee (acting in any capacity hereunder) and its agents and attorneys and of all fees, expenses and liabilities incurred by the Trustee and all other amounts due to the Trustee pursuant to Section 5.07;

SECOND: In case the principal of the Securities of such series in respect of which moneys have been collected shall not have become and be then due and payable, to the payment of interest on the Securities of such series in default in the order of the maturity of the installments of such interest, with interest (to the extent that such interest has been collected by the Trustee) upon the overdue installments of interest at the same rate as the rate of interest or Yield to Maturity (in the case of Original Issue Discount Securities) specified in such Securities, such payments to be made ratably to the Persons entitled thereto, without discrimination or preference;

THIRD: In case the principal of the Securities of such series in respect of which moneys have been collected shall have become and shall be then due and payable, to the payment of the whole amount then owing and unpaid upon all the Securities of such series for principal and interest, with interest upon the overdue principal, and (to the extent that such interest has been collected by the Trustee) upon overdue installments of interest at the same rate as the rate of interest or Yield to Maturity (in the case of Original Issue Discount Securities) specified in the Securities of such series; and in case such moneys shall be insufficient to pay in full the whole amount so due and unpaid upon the Securities of such series, then to the payment of such principal and interest or Yield to Maturity, without preference or priority of principal over interest or Yield to Maturity, or of interest or Yield to Maturity over principal, or of any installment of interest over any other installment of interest, or of any Security of such series over any other Security of such series, ratably to the aggregate of such principal and accrued and unpaid interest or Yield to Maturity; and

FOURTH: To the payment of the remainder, if any, to the Issuer or any other Person lawfully entitled thereto.

Section 4.04. *Suits for Enforcement.* In case an Event of Default has occurred, has not been waived and is continuing, the Trustee may in its discretion proceed to protect and enforce the rights vested in it by the Indenture by such appropriate judicial proceedings as the Trustee shall deem most effectual to protect and enforce any of such rights, either at law or in equity or in bankruptcy or otherwise, whether for the specific enforcement of any covenant or agreement contained in the Indenture or in aid of the exercise of any power granted in the Indenture or to enforce any other legal or equitable right vested in the Trustee by the Indenture or by law.

Section 4.05. *Restoration of Rights on Abandonment of Proceedings.* In case the Trustee shall have proceeded to enforce any right under the Indenture and such proceedings shall have been discontinued or abandoned for any reason, or shall have been determined adversely to the Trustee, then and in every such case the Issuer and the Trustee shall be restored respectively to their former positions and rights hereunder, and all rights, remedies and powers of the Issuer, the Trustee and the Holders shall continue as though no such proceedings had been taken.

Section 4.06. *Limitations on Suits by Holder.* No Holder of any Security of any series shall have any right by virtue or by availing of any provision of the Indenture to institute any action or proceeding at law or in equity or in bankruptcy or otherwise upon or under or with respect to the Indenture, or for the appointment of a trustee, receiver, liquidator, custodian or other similar official or for any other remedy hereunder, unless (i) such Holder previously shall have given to the Trustee written notice of default and of the continuance thereof, as hereinbefore provided; (ii) the Holders of not less than 25% in aggregate principal amount of the Securities of each such series affected that is then Outstanding (voting together as a single class) shall have made written request upon the Trustee to institute such action or proceedings in its own name as Trustee hereunder; (iii) such Holder or Holders shall have offered and provided to the Trustee such security or indemnity satisfactory to the Trustee against the losses, costs, fees, expenses and liabilities to be incurred in compliance with such request; (iv) the Trustee for 60 days after its receipt of such notice, request and offer of indemnity shall have failed to institute any such action or proceeding; and (v) no direction inconsistent with such written request shall have been given to the Trustee during such 60-day period by the Holders of a majority in aggregate principal amount of the Securities of each series affected then Outstanding. It is understood and intended, and expressly covenanted by the taker and Holder of every Security with every other taker and Holder and the Trustee, that no one or more Holders of any series shall have any right in any manner whatever by virtue or by availing of any provision of the Indenture to affect, disturb or prejudice the rights of any other such Holder, or to obtain or seek to obtain priority over or preference to any other such Holder or to enforce any right under the Indenture, except in the manner herein provided and for the equal, ratable and common benefit of all Holders of the applicable series. For the protection and enforcement of the provisions of this Section, each and every Holder and the Trustee shall be entitled to such relief as can be given either at law or in equity.

Section 4.07. *Unconditional Right of Holders to Institute Certain Suits.* Notwithstanding any other provision in the Indenture and any provision of any Security, the right of any Holder of

any Security to receive payment of the principal of and interest on such Security on or after the respective due dates expressed in such Security, or to institute suit for the enforcement of any such payment on or after such respective dates, shall not be impaired or affected without the consent of such Holder.

Section 4.08. *Powers and Remedies Cumulative; Delay or Omission Not Waiver of Default.* Except as provided in Section 4.06, no right or remedy herein conferred upon or reserved to the Trustee or to the Holders is intended to be exclusive of any other right or remedy, and every right and remedy shall, to the extent permitted by law, be cumulative and in addition to every other right and remedy given hereunder or now or hereafter existing at law or in equity or otherwise. The assertion or employment of any right or remedy hereunder, or otherwise, shall not prevent the concurrent assertion or employment of any other appropriate right or remedy.

No delay or omission of the Trustee or of any Holder to exercise any right or power accruing upon any Event of Default occurring and continuing as aforesaid shall impair any such right or power or shall be construed to be a waiver of any such Event of Default or an acquiescence therein; and, subject to Section 4.06, every power and remedy given by the Indenture or by law to the Trustee or to the Holders may be exercised from time to time, and as often as shall be deemed expedient, by the Trustee or by the Holders.

Section 4.09. *Control by Holders.* The Holders of a majority in aggregate principal amount of the Securities of each series affected (voting together as a single class) at the time Outstanding shall have the right to direct the time, method, and place of conducting any proceeding for any remedy available to the Trustee, or exercising any trust or power conferred on the Trustee with respect to the Securities of each such series by the Indenture; provided, however, that such direction shall not be otherwise than in accordance with law and the provisions of the Indenture. The Trustee shall have the right to decline to follow any such direction if the Trustee, being advised by counsel, shall determine that the action or proceeding so directed may not lawfully be taken or if the Trustee in good faith shall determine that the action or proceedings so directed would involve the Trustee in personal liability or for which the Trustee has not been indemnified to its satisfaction or if the Trustee in good faith shall determine that the actions or forbearances specified in or pursuant to such direction would be unduly prejudicial to the interests of Holders of the Securities of all series so affected not joining in the giving of said direction, it being understood that the Trustee shall have no affirmative duty to ascertain whether or not such actions or forbearances are unduly prejudicial to such Holders.

Nothing in the Indenture shall impair the right of the Trustee in its discretion to take any action deemed proper by the Trustee and which is not inconsistent with such direction or directions by Holders.

Section 4.10. *Waiver of Past Defaults.* Except as otherwise provided in Sections 4.01, 4.07 and Section 7.02 the Holders of a majority in aggregate principal amount of the Outstanding Securities of one or more series (voting together as a single class) may, by written notice to the Trustee, on behalf of the Holders of all Securities of each such series waive an existing default

and its consequences. Upon such waiver, the default will cease to exist, and any Event of Default arising therefrom will be deemed to have been cured, but no such waiver will extend to any subsequent or other default or impair any right consequent thereon.

Section 4.11. *Trustee to Give Notice of Default, But May Withhold in Certain Circumstances.* The Trustee shall give to the Holders of any series, as the names and addresses of such Holders appear on the Register, notice by mail of all defaults actually known to a Responsible Officer of the Trustee which have occurred with respect to such series, such notice to be transmitted within the later of 60 days after the occurrence thereof or 30 days after a Responsible Officer of the Trustee has received written notice from the Issuer thereof or otherwise obtained actual knowledge thereof, unless such defaults shall have been cured before the giving of such notice (the term “default” or “defaults” for the purposes of this section being hereby defined to mean any event or condition which is, or with notice or lapse of time or both would become, an Event of Default); provided that, except in the case of default in the payment of the principal of or interest on any of the Securities of such series, or in the payment of any sinking or purchase fund installment with respect to the Securities of such series, the Trustee shall be protected in withholding such notice if and so long as Responsible Officers of the Trustee in good faith determine that the withholding of such notice is in the interests of the Holders of such series.

Section 4.12. *Right of Court to Require Filing of Undertaking to Pay Costs.* In any suit for the enforcement of any right or remedy under the Indenture or in any suit against the Trustee for any action taken or omitted by it as Trustee, a court may require any party litigant in such suit (other than the Trustee) to file an undertaking to pay the costs of the suit, and the court may assess reasonable costs, including reasonable attorneys’ fees, against any party litigant (other than the Trustee) in the suit having due regard to the merits and good faith of the claims or defenses made by the party litigant. This Section does not apply to a suit by a Holder to enforce payment of principal of or interest on any Security on the respective due dates.

ARTICLE 5

CONCERNING THE TRUSTEE

Section 5.01. *Duties and Responsibilities of the Trustee; During Default; Prior to Default.* (a) The duties and responsibilities of the Trustee are as provided by the Trust Indenture Act and as set forth herein. Whether or not expressly so provided, every provision of the Indenture relating to the conduct or affecting the liability of or affording protection to the Trustee is subject to this Article.

(b) Except during the continuance of an Event of Default, the Trustee need perform only those duties that are specifically set forth in the Indenture and no others, and no implied covenants or obligations will be read into the Indenture against the Trustee. In case an Event of Default of which a Responsible Officer shall have actual knowledge or shall have received

written notice from the Issuer or any Holder of Securities of any series stating that an Event of Default has occurred and is continuing, the Trustee shall exercise those rights and powers vested in it by the Indenture, and use the same degree of care and skill in their exercise, as a prudent person would exercise or use under the circumstances in the conduct of such person's own affairs.

(c) No provision of the Indenture shall be construed to relieve the Trustee from liability for its own negligent action, its own negligent failure to act or its own willful misconduct.

Section 5.02. *Trustee's Obligations with Respect to the Covenants.* The Trustee shall not be obligated to monitor or confirm, on a continuing basis or otherwise, the Issuer's compliance with the covenants contained in Article 4 or with respect to any reports or other documents filed under the Indenture.

Section 5.03. *Moneys Held by Trustee.* Subject to the provisions of Section 9.06 hereof, all moneys or property received by the Trustee shall, until used or applied as herein provided, be held in trust for the purposes for which they were received, but need not be segregated from other funds except to the extent required by law. Neither the Trustee nor any agent of the Issuer or the Trustee shall be liable for interest on any money received by it hereunder except such as it may agree with the Issuer in writing to pay thereon.

Section 5.04. *Issuer to Furnish Trustee Names and Addresses of Holders; Preservation of Information and Communications to Holders; Reports by the Trustee to Holders.* If the Trustee is not the Registrar, the Issuer shall cause the Registrar to furnish to the Trustee, in writing at least five Business Days before each Interest Payment Date and at such other times as the Trustee may request in writing, a list in such form and as of such date as the Trustee may reasonably require of the names and addresses of Holders of Securities of each series (but in any event at least every six months with respect to each series of Securities issued hereunder). The Trustee shall preserve, in as current a form as is reasonably practicable, the names and addresses of Holders contained in the most recent list furnished to the Trustee and the names and addresses of Holders received by the Trustee in its capacity as Registrar. The Trustee may destroy any list furnished to it upon receipt of a new list so furnished.

The rights of Holders to communicate with other Holders with respect to their rights under this Indenture or under the Securities, and the corresponding rights and privileges of the Trustee, shall be as provided by the Trust Indenture Act. Every Holder of Securities, by receiving and holding the same, agrees with the Issuer and the Trustee that neither the Issuer nor the Trustee nor any agent of either of them shall be held accountable by reason of any disclosure of information as to names and addresses of Holders made pursuant to the Trust Indenture Act.

Within 60 days after each May 15, beginning with May 15, 2021, the Trustee will mail to each Holder, as provided in Trust Indenture Act Section 313(c), a brief report dated as of such May 15, if required by Trust Indenture Act Section 313(a), and file such reports with each stock exchange upon which its Securities are listed and with the Commission if, and to the extent, required by Trust Indenture Act Section 313(d).

The Trustee shall comply with Section 313(b) and 313(c) of the Trust Indenture Act.

A copy of each such report shall, at the time of such transmission to Holders, be delivered by the Trustee to the Issuer, with each stock exchange upon which any Securities are listed (if so listed) and also with the Commission.

In addition, the Issuer shall promptly notify the Trustee in writing of any change in the qualification of this Indenture.

Section 5.05. *Certain Rights of the Trustee.* Subject to Trust Indenture Act Sections 315(a) through (d):

(a) In the absence of gross negligence or willful misconduct on its part, the Trustee may rely, and will be protected in acting or refraining from acting, upon any resolution, certificate, statement, instrument, opinion, report, notice, request, direction, consent, order,

judgment, bond, debenture, note, other evidence of indebtedness or other paper or document believed by it to be genuine and to have been signed or presented by the proper Person. The Trustee need not investigate any fact or matter stated in the document, but, in the case of any document which is specifically required to be furnished to the Trustee pursuant to any provision hereof, the Trustee shall examine the document to determine whether it conforms to the requirements of the Indenture (but need not confirm or investigate the accuracy of mathematical calculations or other facts stated therein). The Trustee, in its discretion, may make further inquiry or investigation into such facts or matters as it sees fit.

(b) Before the Trustee acts or refrains from acting, it may require an Officer's Certificate or an Opinion of Counsel conforming to Section 10.05 and the Trustee will not be liable for any action it takes or omits to take in good faith in reliance on the certificate or opinion.

(c) The Trustee may act through its attorneys and agents and will not be responsible for the misconduct or negligence of any attorney or agent appointed by the Trustee with due care.

(d) The Trustee will be under no obligation to exercise any of the rights or powers vested in it by the Indenture or to institute, conduct or defend any litigation hereunder or in relation hereto at the request or direction of any of the Holders, unless such Holders have offered and provided to the Trustee security or indemnity satisfactory to the Trustee against losses, costs, fees, expenses and liabilities that might be incurred by it in compliance with such request or direction.

(e) The Trustee will not be liable in its individual capacity for any action it takes, suffers or omits to take in good faith that it believes to be authorized or within its rights or powers or for any action it takes or omits to take in accordance with the direction of the Holders in accordance with Section 4.09 relating to the time, method and place of conducting any proceeding for any remedy available to the Trustee, or exercising any trust or power conferred upon the Trustee, under the Indenture.

(f) The Trustee may consult with counsel, and any advice of such counsel or any Opinion of Counsel will be full and complete authorization and protection in respect of any action taken, suffered or omitted by it hereunder in good faith and in reliance thereon.

(g) No provision of the Indenture will require the Trustee to expend or risk its own funds or otherwise incur any financial liability in the performance of its duties hereunder, or in the exercise of its rights or powers.

(h) The Trustee shall not be liable in its individual capacity for an error in judgment made in good faith by a Responsible Officer or other officers of the Trustee, unless it shall be proved that the Trustee was grossly negligent in ascertaining the pertinent facts as determined by a final order of a court of competent jurisdiction.

(i) The Trustee shall not be personally liable for any action taken, suffered or omitted by it in good faith and believed by it to be authorized or within the discretion or rights or powers conferred upon it by the Indenture.

(j) The Trustee shall have no duty to see to any recording, filing or depositing of the Indenture or any agreement referred to herein or any financing statement or continuation statement evidencing a security interest, or the creation or perfection of any security interest, or to see to the maintenance of any such re-recording or re-filing or re-depositing thereof.

(k) The Trustee assumes no responsibility for the accuracy or completeness of the information concerning the Issuer or any affiliate of the Issuer or any other party contained in this document or the related documents or for any failure by the Issuer or any other party to disclose events that may have occurred and may affect the significance or accuracy of such information.

(l) The Trustee shall have no obligation to pursue any action that is not in accordance with applicable law.

(m) The permissive rights of the Trustee enumerated herein shall not be construed as duties.

(n) The Trustee shall not be required to give any bond or surety in respect of the execution of the trusts and powers under this Indenture. Under no circumstances shall the Trustee be liable in its individual capacity for the obligations evidenced by the Securities. The Trustee may request that the Issuer deliver an Officer's Certificate setting forth the names of individuals and the titles of officers authorized at such time to take specified actions pursuant to this Indenture, which Officer's Certificate may be signed by any Person authorized to sign an Officer's Certificate, including any Person specified as so authorized in any such certificate previously delivered and not superseded.

(o) If any party fails to deliver a notice relating to an event the fact of which, pursuant to this Indenture, requires notice to be sent to the Trustee, the Trustee may conclusively rely on its failure to receive such notice as reason to act as if no such event occurred, unless a Responsible Officer of the Trustee had actual knowledge of such event.

(p) The rights, privileges, protections, immunities and benefits given to the Trustee, including, without limitation, its right to be compensated, reimbursed, and indemnified, are extended to, and shall be enforceable by, the Trustee in each of its capacities hereunder, and each agent, custodian and other Person employed to act hereunder.

(q) The Trustee shall not be required to take notice or be deemed to have notice or knowledge of any default or Event of Default unless a Responsible Officer of the Trustee shall have received written notice at the Corporate Trust Office of any event which is in fact a default, from the Issuer or any Holder of the Securities, and such notice references the Securities and this

Indenture and states that it is a “Notice of Default” or otherwise obtained actual knowledge thereof. In the absence of receipt of such notice or actual knowledge, the Trustee may conclusively assume that there is no default or Event of Default.

Section 5.06. *Trustee and Agents May Hold Securities; Collections, etc.* The Trustee or any agent of the Issuer or the Trustee, in its individual or any other capacity, may become the owner or pledgee of Securities with the same rights it would have if it were not the Trustee or such agent and may otherwise deal with the Issuer and receive, collect, hold and retain collections from the Issuer with the same rights it would have if it were not the Trustee or such agent.

Section 5.07. *Compensation and Indemnification of Trustee and Its Prior Claim.* (a) The Issuer will pay the Trustee compensation as agreed upon in writing for its services. The compensation of the Trustee is not limited by any law on compensation of a trustee of an express trust. The Issuer will reimburse the Trustee for all expenses, disbursements and advances incurred or made by the Trustee, (including the reasonable compensation and the expenses and disbursements of its counsel and of all agents and other Persons not regularly in its employ) except to the extent any such expense, disbursement or advance may arise from the Trustee’s gross negligence or willful misconduct as determined by a final order of a court of competent jurisdiction. The Issuer also covenants to indemnify the Trustee, its directors, officers, employees and agents, its directors, officers, employees and agents for, and to hold each of them harmless against, any fees, damages, costs, loss, liability or expense (including reasonable attorneys’ fees and expenses and court costs) arising out of or in connection with the acceptance or administration of the Indenture or the trusts hereunder (including enforcing this Section 5.07) and the performance of its duties hereunder and under the Securities, including the costs and expenses (including reasonable attorneys’ fees and expenses and court costs) incurred in connection with any action, claim or suit brought to enforce the Trustee’s right to indemnification, and of defending itself against or investigating any claim of liability in the premises and the costs and expenses of defending itself against any claim or liability and of complying with any process served upon it or any of its officers, except to the extent such loss liability or expense is due to the gross negligence or willful misconduct of the Trustee, as determined by a final order of a court of competent jurisdiction.

Anything in the Indenture to the contrary notwithstanding, in no event shall the Trustee be liable for special, indirect, punitive, incidental or consequential loss or damage of any kind whatsoever (including but not limited to lost profits) even if the Trustee has been advised of the possibility of such losses or damages and regardless of the form of action.

(b) To secure the Issuer’s payment obligations in this Section, the Trustee will have a lien prior to the Securities on all money or Property held or collected by the Trustee, in its capacity as Trustee, except money or Property held in trust to pay principal of, and interest on particular Securities.

The obligations of the Issuer under this Section 5.07 shall survive the resignation and removal of the Trustee and payment of the Securities and discharge of the Indenture, and shall extend to any co-trustee or separate trustee.

Section 5.08. *Right of Trustee to Rely on Officer's Certificate, etc.* Subject to Sections 5.01 and 5.05, whenever in the administration of the trusts of the Indenture the Trustee shall deem it necessary or desirable that a matter be proved or established prior to taking or suffering or omitting any action hereunder, such matter (unless other evidence in respect thereof be herein specifically prescribed) may, in the absence of gross negligence or willful misconduct on the part of the Trustee as determined by a final order of a court of competent jurisdiction, be deemed to be conclusively proved and established by an Officer's Certificate or Opinion of Counsel delivered to the Trustee, and such certificate or opinion, in the absence of gross negligence or willful misconduct on the part of the Trustee as determined by a final order of a court of competent jurisdiction, shall be full warrant to the Trustee for any action taken, suffered or omitted by it under the provisions of the Indenture upon the faith thereof.

Section 5.09. *Disqualification; Conflicting Interests.* If the Trustee has or shall acquire any "conflicting interest" within the meaning of Section 310(b) of the Trust Indenture Act, the Trustee and the Issuer shall in all respects comply with the provisions of Section 310(b) of the Trust Indenture Act.

Section 5.10. *Persons Eligible for Appointment as Trustee.* The Indenture must always have a Trustee that satisfies the requirements of Trust Indenture Act Section 310(a) and has a combined capital and surplus of at least \$50,000,000 as set forth in its most recent published annual report of condition.

Section 5.11. *Resignation and Removal; Appointment of Successor Trustee.* (a) The Trustee, or any trustee or trustees hereafter appointed, may at any time resign with respect to one or more or all series of Securities by giving written notice of resignation to the Issuer. Upon receiving such notice of resignation, the Issuer shall promptly appoint a successor trustee or trustees with respect to the applicable series by written instrument in duplicate, executed by authority of the Board of Directors, one copy of which instrument shall be delivered to the resigning Trustee and one copy to the successor trustee or trustees. If no successor trustee shall have been so appointed with respect to any series and have accepted appointment within 30 days after the mailing of such notice of resignation, the resigning Trustee may petition any court of competent jurisdiction for the appointment of a successor trustee, or any Holder who has been a *bona fide* Holder of a Security or Securities of the applicable series for at least six months may, subject to the provisions of Section 4.12, on behalf of himself and all others similarly situated, petition any such court for the appointment of a successor trustee. Such court may thereupon, after such notice, if any, as it may deem proper and prescribe, appoint a successor trustee.

(b) In case at any time any of the following shall occur:

(i) the Trustee shall fail to comply with the provisions of Section 310(b) of the Trust Indenture Act with respect to any series of Securities after written request therefor by the Issuer or by any Holder who has been a *bona fide* Holder of a Security or Securities of such series for at least six months; or

(ii) the Trustee shall cease to be eligible in accordance with the provisions of Section 310(a) of the Trust Indenture Act and shall fail to resign after written request therefor by the Issuer or by any Holder; or

(iii) the Trustee shall become incapable of acting with respect to any series of Securities, or shall be adjudged a bankrupt or insolvent, or a receiver or liquidator of the Trustee or of its property shall be appointed, or any public officer shall take charge or control of the Trustee or of its property or affairs for the purpose of rehabilitation, conservation or liquidation;

then, in any such case, the Issuer may remove the Trustee with respect to the applicable series of Securities and appoint a successor trustee for such series by written instrument, in duplicate, executed by order of the Board of Directors of the Issuer, one copy of which instrument shall be delivered to the Trustee so removed and one copy to the successor trustee, or any Holder who has been a *bona fide* Holder of a Security or Securities of such series for at least six months may on behalf of himself and all others similarly situated, petition any court of competent jurisdiction for the removal of the Trustee and the appointment of a successor trustee with respect to such series. Such court may thereupon, after such notice, if any, as it may deem proper and prescribe, remove the Trustee and appoint a successor trustee.

(c) The Holders of a majority in aggregate principal amount of the Securities of each series at the time Outstanding may at any time, upon 30 days' advance written notice, remove the Trustee with respect to Securities of such series and appoint a successor Trustee with respect to the Securities of such series with the consent of the Issuer by delivering to the Trustee so removed, to the successor Trustee so appointed and to the Issuer the evidence provided for in Section 6.01 of the action in that regard taken by the Holders.

(d) Any resignation or removal of the Trustee with respect to any series and any appointment of a successor Trustee with respect to such series pursuant to any of the provisions of this Section 5.11 shall become effective only upon acceptance of appointment by the successor Trustee as provided in Section 5.12.

(e) Any successor Trustee appointed pursuant to this Section may be appointed with respect to the Securities of one or more series or all of such series, and at any time there shall be only one Trustee with respect to the Securities of any particular series.

Section 5.12. *Acceptance of Appointment by Successor.* Any successor Trustee appointed as provided in Section 5.11 shall execute and deliver to the Issuer and to its predecessor Trustee an instrument accepting such appointment hereunder, and thereupon the

resignation or removal of the predecessor Trustee with respect to all or any applicable series shall become effective and such successor Trustee, without any further act, deed or conveyance, shall become vested with all rights, powers, duties and obligations with respect to such series of its predecessor hereunder, with like effect as if originally named as trustee for such series hereunder; but, nevertheless, on the written request of the Issuer or of the successor Trustee, upon payment of its charges then unpaid, the trustee ceasing to act shall, subject to Section 9.06, pay over to the successor Trustee all moneys at the time held by it hereunder and shall execute and deliver an instrument transferring to such successor Trustee all such rights, powers, duties and obligations.

If a successor Trustee is appointed with respect to the Securities of one or more (but not all) series, the Issuer, the predecessor Trustee and each successor Trustee with respect to the Securities of any applicable series shall execute and deliver a written instrument at the expense of the Issuer which (1) shall contain such provisions as shall be deemed necessary or desirable to transfer and confirm to, and to vest in, each successor Trustee all the rights, powers, trusts and duties of the retiring Trustee with respect to the Securities of that or those series to which the appointment of such successor Trustee relates, (2) shall contain such provisions as shall be deemed necessary or desirable to confirm that all the rights, powers, trusts and duties of the predecessor Trustee with respect to the Securities of any series as to which the predecessor Trustee is not retiring shall continue to be vested in the predecessor Trustee, and (3) shall add to or change any of the provisions of the Indenture as shall be necessary to provide for or facilitate the administration of the trusts hereunder by more than one trustee, it being understood that nothing herein or in such supplemental indenture shall constitute such trustees' co-trustees of the same trust and that each such trustee shall be trustee of a trust or trusts under separate series.

Upon acceptance of appointment by any successor Trustee as provided in this Section 5.12, the Issuer shall mail notice thereof by first-class mail to the Holders of any series for which such successor Trustee is acting as trustee at their last addresses as they shall appear in the Register. If the acceptance of appointment is substantially contemporaneous with the resignation, then the notice called for by the preceding sentence may be combined with the notice called for by Section 5.11. If the Issuer fails to mail such notice within ten days after acceptance of appointment by the successor Trustee, the successor Trustee shall cause such notice to be mailed at the expense of the Issuer.

Section 5.13. *Merger, Conversion, Consolidation or Succession to Business of Trustee.* If the Trustee consolidates with, merges or converts into, or transfers all or substantially all of its corporate trust business to, another corporation or national banking association, the resulting, surviving or transferee corporation or national banking association without any further act will be the successor Trustee with the same effect as if the successor Trustee had been named as the Trustee in the Indenture.

In case at the time such successor to the Trustee shall succeed to the trusts created by the Indenture any of the Securities of any series shall have been authenticated but not delivered, any such successor to the Trustee may adopt the certificate of authentication of any predecessor

Trustee and deliver such Securities so authenticated; and, in case at that time any of the Securities of any series shall not have been authenticated, any successor to the Trustee may authenticate such Securities either in the name of any predecessor hereunder or in the name of the successor Trustee; and in all such cases such certificate shall have the full force which it is anywhere in the Securities of such series or in the Indenture provided that the certificate of the Trustee shall have; provided, that the right to adopt the certificate of authentication of any predecessor Trustee or to authenticate Securities of any series in the name of any predecessor Trustee shall apply only to its successor or successors by merger, conversion or consolidation.

Section 5.14. *Preferential Collection of Claims Against the Issuer.* The Trustee shall comply with Section 311(a) of the Trust Indenture Act, excluding any creditor relationship described in Section 311(b) of the Trust Indenture Act. A Trustee who has resigned or been removed shall be subject to Section 311(a) of the Trust Indenture Act to the extent included therein.

Section 5.15. *Trustee's Disclaimer.* The Trustee (i) makes no representation as to the validity or adequacy of the Indenture or the Securities, (ii) is not accountable for the Issuer's use or application of the proceeds from the Securities and (iii) is not responsible for any statement in the Indenture, the Securities, any Offering Document or any other documents relating to the issuance of the Securities, other than its certificate of authentication.

ARTICLE 6

CONCERNING THE HOLDERS

Section 6.01. *Evidence of Action Taken by Holders.* Any request, demand, authorization, direction, notice, consent, waiver or other action provided by the Indenture to be given or taken by a specified percentage in principal amount of the Holders of any or all series may be embodied in and evidenced by one or more instruments of substantially similar tenor signed by such specified percentage of Holders in person or by agent duly appointed in writing; and, except as herein otherwise expressly provided, such action shall become effective when such instrument or instruments are delivered to the Trustee.

If the Issuer shall solicit from the Holders of any series any request, demand, authorization, direction, notice, consent, waiver or other action, the Issuer may, at its option, as evidenced by an Officer's Certificate, fix in advance a record date for such series for the determination of Holders entitled to give such request, demand, authorization, direction, notice, consent, waiver or other action, but the Issuer shall have no obligation to do so. If such a record date is fixed, such request, demand, authorization, direction, notice, consent, waiver or other action, may be given before or after the record date, but only the Holders of the requisite proportion of Outstanding Securities of that series who have authorized or agreed or consented to such request, demand, authorization, direction, notice, consent, waiver or other action, and for that purpose the Outstanding Securities of that series shall be computed as of the record date;

provided, however, that no such authorization, agreement or consent by such Holders on the record date shall be deemed effective unless it shall become effective pursuant to the provisions of the Indenture not later than six months after the record date.

Proof of execution of any instrument or of a writing appointing any such agent shall be sufficient for any purpose of the Indenture and (subject to Sections 5.01 and 5.05) conclusive in favor of the Trustee and the Issuer, if made in the manner provided in this Article.

Section 6.02. *Proof of Execution of Instruments and of Holding of Securities; Record Date.* Subject to Sections 5.01 and 5.05, the execution of any instrument by a Holder or his agent or proxy may be proved in accordance with such reasonable rules and regulations as may be prescribed by the Trustee or in such manner as shall be satisfactory to the Trustee. The holding of Securities shall be proved by the Register or by a certificate of the registrar thereof. The Issuer may set a record date for purposes of determining the identity of Holders of any series entitled to vote or consent to any action referred to in Section 6.01, which record date may be set at any time or from time to time by notice to the Trustee, for any date or dates (in the case of any adjournment or reconsideration) not more than 60 days nor less than five days prior to the proposed date of such vote or consent, and thereafter, notwithstanding any other provisions hereof, only Holders of such series of record on such record date shall be entitled to so vote or give such consent or revoke such vote or consent. Notice of such record date may be given before or after any request for any action referred to in Section 6.01 is made by the Issuer.

Section 6.03. *Holders to Be Treated as Owners.* Prior to the due presentment for registration of transfer of any Security, the Issuer, the Trustee and any agent of the Issuer or the Trustee may deem and treat the Person in whose name any Security shall be registered upon the Register for such series as the absolute owner of such Security (whether or not such Security shall be overdue and notwithstanding any notation of ownership or other writing thereon) for the purpose of receiving payment of or on account of the principal of, and, subject to the provisions of the Indenture, interest on such Security and for all other purposes; and neither the Issuer, the Trustee, nor any agent of the Issuer or the Trustee shall be affected by any notice to the contrary. All such payments so made to any such Person, or upon his order, shall be valid, and, to the extent of the sum or sums so paid, effectual to satisfy and discharge the liability for moneys payable upon any such Security.

Section 6.04. *Securities Owned by Issuer Deemed Not Outstanding.* In determining whether the Holders of the requisite aggregate principal amount of Outstanding Securities of any or all series have concurred in any direction, consent or waiver under the Indenture, Securities which are owned by the Issuer or any other obligor on the Securities with respect to which such determination is being made or by any Person directly or indirectly controlling or controlled by or under direct or indirect common control with the Issuer or any other obligor on the Securities with respect to which such determination is being made shall be disregarded and deemed not to be Outstanding for the purpose of any such determination, except that for the purpose of determining whether the Trustee shall be protected in relying on any such direction, consent or waiver only Securities which a Responsible Officer of the Trustee actually knows are so owned,

or has received written notice that such Securities are so owned, shall be so disregarded. Securities so owned which have been pledged in good faith may be regarded as Outstanding if the pledgee establishes to the satisfaction of the Trustee the pledgee's right so to act with respect to such Securities and that the pledgee is not the Issuer or any other obligor upon the Securities or any Person directly or indirectly controlling or controlled by or under direct or indirect common control with the Issuer or any other obligor on the Securities. In case of a dispute as to such right, the advice of counsel shall be full protection in respect of any decision made by the Trustee in accordance with such advice. Upon request of the Trustee, the Issuer shall furnish to the Trustee promptly an Officer's Certificate listing and identifying all Securities, if any, known by the Issuer to be owned or held by or for the account of any of the above-described Persons; and, subject to Sections 5.01 and 5.05, the Trustee shall be entitled to accept such Officer's Certificate as conclusive evidence of the facts therein set forth and of the fact that all Securities not listed therein are Outstanding for the purpose of any such determination.

Section 6.05. *Right of Revocation of Action Taken.* At any time prior to (but not after) the evidencing to the Trustee, as provided in Section 6.01, of the taking of any action by the Holders of the percentage in aggregate principal amount of the Securities of any or all series, as the case may be, specified in the Indenture in connection with such action, any Holder of a Security the serial number of which is shown by the evidence to be included among the serial numbers of the Securities the Holders of which have consented to such action may, by filing written notice at the applicable Corporate Trust Office and upon proof of holding as provided in this Article, revoke such action so far as concerns such Security. Except as aforesaid any such action taken by the Holder of any Security shall be conclusive and binding upon such Holder and upon all future Holders and owners of such Security and of any Securities issued in exchange or substitution therefor, irrespective of whether or not any notation in regard thereto is made upon any such Security. Any action taken by the Holders of the percentage in aggregate principal amount of the Securities of any or all series, as the case may be, specified in the Indenture in connection with such action shall be conclusively binding upon the Issuer, the Trustee and the Holders of all the Securities affected by such action.

ARTICLE 7

AMENDMENTS, SUPPLEMENTS AND WAIVERS

Section 7.01. *Supplemental Indentures without Consent of Holders.* The Issuer and the Trustee may amend the Indenture or the Securities or enter into an indenture supplemental hereto without notice to or the consent of any Holder to

- (a) cure ambiguities, omissions, defects or inconsistencies, as evidenced by an Officer's Certificate;
- (b) make any change that would provide any additional rights or benefits to the Holders of the Securities of a series;

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- (c) provide for or add guarantors with respect to the Securities of any series;
 - (d) secure the Securities of any series;
 - (e) establish the form or forms of Securities of any series;
 - (f) provide for uncertificated Securities of any series in addition to or in place of certificated Securities of the applicable series;
 - (g) evidence and provide for the acceptance of appointment by a successor Trustee;
 - (h) provide for the assumption by a successor corporation, partnership, trust or limited liability company of the Issuer's obligations to the Holders of the Securities of any series, in each case in compliance with the applicable provisions of the Indenture;
 - (i) maintain the qualification of the Indenture under the Trust Indenture Act;
 - (j) conform any provision in the Indenture or the terms of the Securities of any series to the prospectus, offering memorandum, offering circular or any other document pursuant to which the Securities of such series were offered (any such document, an "**Offering Document**"); or
 - (k) make any change that does not adversely affect the rights of any Holder in any material respect.

The Trustee is hereby authorized to and shall join with the Issuer in the execution of any such amendment or supplemental indenture, to make any further appropriate agreements and stipulations which may be therein contained and to accept the conveyance, transfer, assignment, mortgage or pledge of any Property thereunder, but the Trustee shall not be obligated to enter into any such amendment or supplemental indenture which affects the Trustee's own rights, duties or immunities under the Indenture or otherwise.

Any amendment or supplemental indenture authorized by the provisions of this section may be executed without notice to and without the consent of the Holders of any of the Securities at the time Outstanding, notwithstanding any of the provisions of Section 7.02.

Section 7.02. *Supplemental Indentures with Consent of Holders.* (a) With the consent (evidenced as provided in Article 6) of the Holders of not less than a majority in aggregate principal amount of the Securities at the time Outstanding of all series affected by such amendment or supplemental indenture (voting together as a single class), the Issuer, when authorized by a Resolution of the Board of Directors, and the Trustee may, from time to time and at any time, enter into an indenture or indentures supplemental hereto for the purpose of adding any provisions to or changing in any manner or eliminating any of the provisions of the Indenture or of any supplemental indenture or of modifying in any manner the rights of the

Holders of the Securities of each such series and such Holders (voting together as a single class) may waive future compliance by the Issuer with a provision of the Indenture or the Securities.

(b) Notwithstanding the provisions of Section 7.02(a), without the consent of each affected Holder of a particular series, an amendment, supplement or waiver may not

(i) reduce the principal amount, or extend the fixed maturity, of the Securities, alter or waive the redemption or mandatory repurchase provisions of the Securities;

(ii) impair the right of any Holder of the Securities to receive payment of principal (including premium, if any, and amounts due upon redemption or mandatory repurchase) or interest on the Securities on and after the due dates for such principal or interest;

(iii) change the currency in which principal or interest is paid;

(iv) reduce the percentage in principal amount Outstanding of Securities of any series which must consent to an amendment, supplement or waiver or consent to take any action;

(v) impair the right to institute suit for the enforcement of any payment on the Securities;

(vi) waive a payment default with respect to the Securities or any guarantor;

(vii) reduce the interest rate or extend the time for payment of interest on the Securities;

(viii) adversely affect the ranking of the Securities of any series; or

(ix) change the location of the office or agency required under Section 3.02 or any place of payment unless set forth in the Offering Document relating to such Securities.

It shall not be necessary for the consent of the Holders under this section to approve the particular form of any proposed supplemental indenture, but it shall be sufficient if such consent shall approve the substance thereof.

Section 7.03. *Execution of Amendments or Supplemental Indentures or Waivers.* Upon the request of the Issuer, accompanied by a copy of a Resolution of the Board of Directors certified by the secretary or an assistant secretary of the Issuer authorizing the execution of any such amendment, supplemental indenture or waiver and upon the delivery to the Trustee of evidence of the consent of Holders as aforesaid and other documents, if any, required by Section 6.01, the Trustee shall join with the Issuer in the execution of such amendment, supplemental

indenture or waiver unless such supplemental indenture or waiver affects the Trustee's own rights, duties or immunities under the Indenture or otherwise, in which case the Trustee may in its discretion, but shall not be obligated to, enter into such amendment, supplemental indenture or waiver.

The Trustee, subject to the provisions of Sections 5.01 and 5.05, shall receive an Officer's Certificate and an Opinion of Counsel as conclusive evidence that any amendment, supplemental indenture or waiver executed pursuant to this Article 7 complies with the applicable provisions of the Indenture.

Promptly after the execution by the Issuer and the Trustee of any amendment, supplemental indenture or waiver pursuant to the provisions of this Section, the Issuer shall mail a notice thereof by first class mail to the Holders of each series affected thereby at their addresses as they shall appear on the Register of the Issuer, setting forth in general terms the substance of such amendment, supplemental indenture or waiver. Any failure of the Issuer to mail such notice, or any defect therein, shall not, however, in any way impair or affect the validity of any such amendment, supplemental indenture or waiver.

Section 7.04. *Effect of Amendment, Supplemental Indenture or Waiver.* Upon the execution of any amendment, supplemental indenture or waiver pursuant to the provisions hereof, the Indenture shall be and be deemed to be modified and amended in accordance therewith and the respective rights, limitations of rights, obligations, duties and immunities under the Indenture of the Trustee, the Issuer and the Holders of each series affected thereby shall thereafter be determined, exercised and enforced hereunder subject in all respects to such modifications and amendments, and all the terms and conditions of any such amendment, supplemental indenture or waiver shall be and be deemed to be part of the terms and conditions of the Indenture for any and all purposes.

Section 7.05. *Effect of Consent.* After an amendment, supplement or waiver becomes effective, it will bind every Holder unless it is of the type requiring the consent of each Holder affected. If the amendment, supplement or waiver is of the type requiring the consent of each Holder affected, the amendment, supplement or waiver will bind each Holder that has consented to it and every subsequent Holder of a Security that evidences the same debt as the Security of the consenting Holder.

Section 7.06. *Notation on Securities in Respect of Amendments, Supplemental Indentures or Waivers.* Securities of any series authenticated and delivered after the execution of any amendment, supplemental indenture or waiver pursuant to the provisions of this Article may bear a notation in form approved by the Trustee for such series, as to any matter provided for by such amendment, supplemental indenture or waiver or as to any action taken at any such meeting. If the Trustee shall so determine, new Securities of any series so modified as to conform, in the opinion of the Trustee and the Board of Directors of the Issuer, to any modification of the Indenture contained in any such amendment, supplemental indenture or waiver may be prepared

by the Issuer, authenticated by the Trustee and delivered in exchange for the Securities of such series then Outstanding.

Section 7.07. *Conformity with the Trust Indenture Act.* Every amendment, supplemental indenture or waiver executed pursuant to this Article shall conform to the requirements of the Trust Indenture Act as then in effect.

ARTICLE 8

CONSOLIDATION, MERGER, SALE OR CONVEYANCE

Section 8.01. *Consolidation, Merger or Sale of Assets by the Issuer.* (a) The Issuer shall not merge or consolidate or combine with or into or, directly or indirectly, sell, assign, convey, lease, transfer or otherwise dispose of all or substantially all of its assets to any Person or Persons in a single transaction or through a series of transactions, unless:

(i) the Issuer shall be the continuing Person or, if the Issuer is not the continuing Person, the resulting, surviving or transferee Person (the “**Surviving Entity**”) is a corporation or limited liability company organized and existing under the laws of the United States of America or any state thereof or the District of Columbia;

(ii) the Surviving Entity shall expressly assume all of the Issuer’s obligations under the Securities and the Indenture, and shall, if required by law to effectuate the assumption, execute a supplemental indenture in form satisfactory to the Trustee which will be delivered to the Trustee;

(iii) immediately after giving effect to such transaction or series of transactions on a pro forma basis, no Event of Default has occurred and is continuing; and

(iv) the Issuer or the Surviving Entity will have delivered to the Trustee an Officer’s Certificate and Opinion of Counsel stating that the transaction or series of transactions and a supplemental indenture, if any, complies with this Section 8.01 and that all conditions precedent in the Indenture relating to the transaction or series of transactions have been satisfied.

(b) The restrictions in Sections 8.01(a)(iii) and 8.01(a)(iv) shall not be applicable to:

(i) the merger or consolidation of the Issuer with an affiliate of the Issuer if the Board of Directors determines in good faith that the purpose of such transaction is principally to change the state of incorporation of the Issuer or convert the form of organization of the Issuer to another form; or

(ii) the merger of the Issuer with or into a single direct or indirect wholly owned subsidiary of the Issuer pursuant to Section 251(g) (or any successor provision) of

the General Corporation Law of the State of Delaware (or similar provision of the Issuer's state of incorporation).

Section 8.02. *Successor Substituted.* If any consolidation or merger or any sale, assignment, conveyance, lease, transfer or other disposition of all or substantially all of the Issuer's assets occurs in accordance with the Indenture, the successor Person shall succeed to, and be substituted for, and may exercise every right and power of the Issuer under the Indenture with the same effect as if such successor Person had been named herein as the Issuer and the Issuer shall (except in the case of a lease) be discharged from all obligations and covenants under the Indenture and the Securities.

ARTICLE 9

DEFEASANCE AND DISCHARGE; UNCLAIMED MONEYS

Section 9.01. *Satisfaction and Discharge of Indenture.* The Issuer may terminate its obligations under the Indenture, when:

(a) either (i) all the Securities of any series issued that have been authenticated and delivered have been accepted by the Trustee for cancellation (other than any Securities of such series which shall have been destroyed, lost or stolen and which shall have been replaced or paid as provided in Section 2.09); or (ii) all the Securities of any series issued that have not been accepted by the Trustee for cancellation shall have become due and payable, or are by their terms to become due and payable within one year, and the Issuer shall have made irrevocable arrangements satisfactory to the Trustee for the giving of notice of redemption by such Trustee in the Issuer's name, and at the Issuer's expense and the Issuer have irrevocably deposited or caused to be irrevocably deposited with the Trustee sufficient funds to pay and discharge the entire indebtedness on the series of Securities to pay principal and interest; and

(b) The Issuer shall have paid or caused to be paid all other sums then due and payable under the Indenture; and

(c) The Issuer shall have delivered to the Trustee an Officer's Certificate and an Opinion of Counsel each stating that all conditions precedent under the Indenture relating to the satisfaction and discharge of the indenture have been complied with.

If the foregoing conditions are met, the Trustee, on written demand of the Issuer accompanied by an Officer's Certificate and an Opinion of Counsel and at the cost and expense of the Issuer, shall execute such instruments prepared by the Issuer acknowledging such satisfaction of and discharging the Indenture with respect to such series except as to Section 5.07 and if money has been deposited with the Trustee under Section 9.01(a) and Section 9.04, Section 9.05 and Section 9.06.

Section 9.02. *Legal Defeasance*. After the 91st day following the deposit referred to in Section 9.02(a), the Issuer will be deemed to have paid and will be discharged from its obligations in respect of the Securities of any series and the Indenture, other than its obligations in Article 2 and Section 3.01, Section 3.02, Section 5.07, Section 5.11, and:

- (1) rights of registration of transfer and exchange of Securities of such series, and the Issuer's right of optional redemption, if any;
- (2) substitution of mutilated, defaced, destroyed, lost or stolen Securities;
- (3) rights of Holders to receive payments when due of principal thereof and interest thereon;
- (4) the rights, powers, trusts, duties and immunities of the Trustee hereunder;
- (5) the rights of the Holders of such series as beneficiaries hereof with respect to the Property so deposited with the Trustee payable to all or any of them; and
- (6) the rights of the Issuer to be repaid any money pursuant to Sections 9.05 and 9.06,

provided the following conditions have been satisfied:

(a) The Issuer has irrevocably deposited or caused to be irrevocably deposited with the Trustee as trust funds for the purpose of making the following payments, specifically pledged as security for, and dedicated solely to the benefits of the Holders of the Securities of a series in cash or Governmental Obligations or a combination thereof (other than moneys repaid by the Trustee or any paying agent to the Issuer in accordance with Section 9.06) in each case in an amount sufficient without reinvestment, in the written opinion of a nationally recognized firm of independent public accountants to pay and discharge, and which shall be applied by the Trustee to pay and discharge, all of the principal and interest at due date or maturity or if the Issuer has made irrevocable arrangements satisfactory to the Trustee for the giving of notice of redemption by the Trustee in the Issuer's name and at the Issuer's expense, the redemption date;

(b) The Issuer has delivered to the Trustee an Opinion of Counsel stating that, as a result of an IRS ruling or a change in applicable federal income tax law, the beneficial owners of the Securities of that series will not recognize gain or loss for federal income tax purposes as a result of the deposit, defeasance and discharge to be effected and will be subject to the same federal income tax as would be the case if the deposit, defeasance and discharge did not occur;

(c) No default with respect to the outstanding Securities of that series has occurred and is continuing at the time of such deposit after giving effect to the deposit or, in the case of legal defeasance, no default relating to bankruptcy or insolvency has occurred and is continuing at any time on or before the 91st day after the date of such deposit (other than an Event of Default

resulting from the borrowing of funds to be applied to such deposit and the grant of any Lien securing such borrowings), it being understood that this condition is not deemed satisfied until after the 91st day;

(d) The defeasance will not cause the Trustee to have a conflicting interest within the meaning of the Trust Indenture Act, assuming all Securities of a series were in default within the meaning of such act;

(e) The defeasance will not result in a breach or violation of, or constitute a default under, the Indenture (other than an Event of Default resulting from the borrowing of funds to be applied to such deposit and the grant of any Lien securing such borrowings), or any other material agreement or instrument to which the Issuer is a party or by which it is bound;

(f) The defeasance will not result in the trust arising from such deposit constituting an investment company within the meaning of the Investment Company Act of 1940, as amended, unless the trust is registered under such Act or exempt from registration; and

(g) The Issuer has delivered to the Trustee an Officer's Certificate and an Opinion of Counsel, in each case stating that all conditions precedent provided for herein relating to the defeasance have been complied with;

Prior to the end of the 91-day period, none of the Issuer's obligations under the Indenture will be discharged. Thereafter, the Trustee upon request will acknowledge in writing the discharge of the Issuer's obligations under the Securities and the Indenture except for the surviving obligations specified above.

Section 9.03. *Covenant Defeasance.* After the 91st day following the deposit referred to in Section 9.02(a), the Issuer's obligations set forth in Sections 3.04, 3.05 and 8.01 will terminate and Section 4.01(d) will no longer constitute an Event of Default, provided the following conditions have been satisfied:

(a) The Issuer has complied with clauses (a), (c), (d), (e), (f) and (g) of Section 9.02; and

(b) the Issuer has delivered to the Trustee an Opinion of Counsel to the effect that the Holders of the Securities of that series will not recognize gain or loss for U.S. federal income tax purposes as a result of the deposit and covenant defeasance to be effected and will be subject to the same federal income tax as would be the case if the deposit and covenant defeasance did not occur.

Except as specifically stated above, none of the Issuer's obligations under the Indenture will be discharged.

Section 9.04. *Application by Trustee of Funds Deposited for Payment of Securities.* Subject to Section 9.06, all moneys deposited with the Trustee pursuant to Section 9.01 shall be held in trust and applied by it to the payment, either directly or through any paying agent (including the Issuer acting as its own paying agent), to the Holders of the particular Securities of such series for the payment or redemption of which such moneys or Governmental Obligations have been deposited with the Trustee, of all sums due and to become due thereon for principal and interest. Such money need not be segregated from other funds except to the extent required by law.

Section 9.05. *Repayment of Moneys Held by Paying Agent.* In connection with the satisfaction and discharge of the Indenture with respect to Securities of any series, all moneys then held by any paying agent under the provisions of the Indenture with respect to such series of Securities shall, upon demand of the Issuer, be repaid to the Issuer or paid to the Trustee and thereupon such paying agent shall be released from all further liability with respect to such moneys or Governmental Obligations.

Section 9.06. *Return of Moneys Held by Trustee and Paying Agent Unclaimed for Two Years.* Subject to applicable escheatment laws, any moneys or Governmental Obligations deposited with or paid to the Trustee or any paying agent for the payment of the principal of or interest on any Security of any series and not applied but remaining unclaimed for two years after the date upon which such principal or interest shall have become due and payable, shall, upon the written request of the Issuer and unless otherwise required by mandatory provisions of applicable escheat or abandoned or unclaimed property law, be repaid to the Issuer by the Trustee for such series or such paying agent, and the Holder of the Security of such series shall, unless otherwise required by mandatory provisions of applicable escheat or abandoned or unclaimed property laws, thereafter look only to the Issuer for any payment which such Holder may be entitled to collect, and all liability of the Trustee or any paying agent with respect to such moneys shall thereupon cease.

ARTICLE 10

MISCELLANEOUS PROVISIONS

Section 10.01. *Incorporators, Stockholders, Employees, Officers and Directors of Issuer Exempt from Individual Liability.* No recourse under or upon any obligation, covenant or agreement contained in the Indenture, or in any Security, or because of any indebtedness evidenced thereby, shall be had against any incorporator, as such, or against any past, present or future stockholder, employee, officer or director, as such, of the Issuer or of any successor, either directly or through the Issuer or any successor, under any rule of law, statute or constitutional provision or by the enforcement of any assessment or by any legal or equitable proceeding or otherwise, all such liability being expressly waived and released by the acceptance of the Securities by the Holders thereof and as part of the consideration for the issue of the Securities.

Section 10.02. *Provisions of Indenture for the Sole Benefit of Parties and Holders.* Nothing in the Indenture or in the Securities, expressed or implied, shall give or be construed to give to any Person, firm or corporation, other than the parties hereto and their successors and the Holders of the Securities, any legal or equitable right, remedy or claim under the Indenture or under any covenant or provision herein contained, all such covenants and provisions being for the sole benefit of the parties hereto and their successors and of the Holders of the Securities.

Section 10.03. *Successors and Assigns of Issuer Bound by Indenture.* All the agreements of the Issuer in the Indenture and the Securities shall bind its successors and assigns.

Section 10.04. *Notices and Demands on Issuer, Trustee and Holders.* Any notice or demand which by any provision of the Indenture is required or permitted to be given or served by the Trustee or by the Holders to or on the Issuer may be given or served by being deposited postage prepaid, first-class mail (except as otherwise specifically provided herein) addressed (until another address of the Issuer is filed by the Issuer with the Trustee) to Illumina, Inc., 5200 Illumina Way, San Diego, CA 92122, Attention: General Counsel. Any notice, direction, request or demand by the Issuer or any Holder to or upon the Trustee shall be deemed to have been sufficiently given or made, for all purposes, if given or made at the Corporate Trust Office of the Trustee.

Where the Indenture provides for notice to Holders, such notice shall be sufficiently given (unless otherwise herein expressly provided) (x) in the case of certificated Securities, if in writing and mailed, first-class postage prepaid, to each Holder entitled thereto, at his last address as it appears in the Register and (y), in the case of Global Securities, if given to the Depository (or its designee) pursuant to the standing instructions from the Depository or its designee, including by electronic mail in accordance with its applicable procedures. In any case where notice to Holders is given by mail, neither the failure to mail such notice, nor any defect in any notice so mailed, to any particular Holder shall affect the sufficiency of such notice with respect to other Holders. Where the Indenture provides for notice in any manner, such notice may be waived in writing by the Person entitled to receive such notice, either before or after the event, and such waiver shall be the equivalent of such notice. Waivers of notice by Holders shall be delivered to the Trustee, but such filing shall not be a condition precedent to the validity of any action taken in reliance upon such waiver.

In case, by reason of the suspension of or irregularities in regular mail service, it shall be impracticable to mail notice to the Issuer and Holders when such notice is required to be given pursuant to any provision of the Indenture, then any manner of giving such notice as shall be satisfactory to the Trustee shall be deemed to be a sufficient giving of such notice.

All notices, approvals, consents, requests directions and any communications hereunder must be in writing, provided that any notices, approvals, consents, requests, directions and other communication sent to Trustee hereunder must be in the form of a document that is signed manually or by way of a digital signature provided by DocuSign or Adobe Sign (or such other digital signature provider as specified in writing to the Trustee by an Officer of the Issuer), in

English. Any party delivering any communications to the Trustee by electronic means agrees to assume all risks arising out of the use of using digital signatures and electronic methods to submit communications to Trustee, including without limitation the risk of Trustee acting on unauthorized instructions, and the risk of interception and misuse by third parties.

Section 10.05. *Officer's Certificates and Opinions of Counsel; Statements to Be Contained Therein.* Upon any application or demand by the Issuer to the Trustee to take any action under any of the provisions of the Indenture, the Issuer shall, if requested by the Trustee, furnish to the Trustee an Officer's Certificate stating that all conditions precedent, if any, provided for in the Indenture relating to the proposed action have been complied with and an Opinion of Counsel stating that in the opinion of such counsel all such conditions precedent have been complied with.

Each certificate or opinion provided for in the Indenture and delivered to the Trustee with respect to compliance with a condition or covenant provided for in the Indenture shall include (a) a statement that the Person making such certificate or opinion has read such covenant or condition, (b) a brief statement as to the nature and scope of the examination or investigation upon which the statements or opinions contained in such certificate or opinion are based, (c) a statement that, in the opinion of such Person, he has made such examination or investigation as is necessary to enable him to express an informed opinion as to whether or not such covenant or condition has been complied with and (d) a statement as to whether or not, in the opinion of such Person, such condition or covenant has been complied with.

Any certificate, statement or opinion of an officer of the Issuer may be based, insofar as it relates to legal matters, upon a certificate or opinion of or representations by counsel, unless such officer knows that the certificate or opinion or representations with respect to the matters upon which his certificate, statement or opinion may be based as aforesaid are erroneous, or in the exercise of reasonable care should know that the same are erroneous. Any certificate, statement or Opinion of Counsel may be based, insofar as it relates to factual matters, information with respect to which is in the possession of the Issuer, upon the certificate, statement or opinion of or representations by an officer or officers of the Issuer, unless such counsel knows that the certificate, statement or opinion or representations with respect to the matters upon which his certificate, statement or opinion may be based as aforesaid are erroneous, or in the exercise of reasonable care should know that the same are erroneous.

Any certificate, statement or opinion of an officer of the Issuer or Opinion of Counsel may be based, insofar as it relates to accounting matters, upon a certificate or opinion of or representations by an accountant or firm of accountants in the employ of the Issuer, unless such officer or counsel, as the case may be, knows that the certificate or opinion or representations with respect to the accounting matters upon which his certificate, statement or opinion may be based as aforesaid are erroneous, or in the exercise of reasonable care should know that the same are erroneous.

Any certificate or opinion of any independent firm of public accountants delivered to the Trustee shall contain a statement that such firm is independent.

Section 10.06. *Payments Due on Saturdays, Sundays and Holidays.* Except as provided pursuant to Section 2.01 pursuant to a Resolution of the Board of Directors, and as set forth in an Officer's Certificate, or established in one or more indentures supplemental to the Indenture, if the date of maturity of interest on or principal of the Securities of any series or repayment of any such Security shall not be a Business Day, then payment of interest or principal need not be made on such date, but may be made on the next succeeding Business Day with the same force and effect as if made on the date of maturity or the date fixed for redemption, and no interest shall accrue for the period after such date. Any redemption date or required repurchase date must be a Business Day.

Section 10.07. *Trust Indenture Act of 1939.* The Indenture shall incorporate and be governed by the provisions of the Trust Indenture Act that are required to be part of and to govern indentures qualified under the Trust Indenture Act. If and to the extent that any provision of this Indenture limits, qualifies, or conflicts with the duties imposed by Section 318(c) of the Trust Indenture Act, such imposed duties will control. None of the provisions of this Indenture were inserted pursuant to Sections 310 through 318(a) of the Trust Indenture Act because those provisions have not required such insertion since the effective date of the Trust Indenture Reform Act of 1990.

Section 10.08. *New York Law to Govern.* The Indenture and each Security shall be governed by and construed in accordance with the laws of the State of New York. The parties hereto hereby (i) irrevocably submit to the exclusive jurisdiction of any federal or state court sitting in the Borough of Manhattan, the city of New York, (ii) waive any objection to laying of venue in any such action or proceeding in such courts, and (iii) waive any objection that such courts are an inconvenient forum or do not have jurisdiction over any party.

Section 10.09. *Counterparts.* The parties may sign multiple counterparts of this Indenture. Each signed counterpart shall be deemed an original, but all of them together represent the same agreement. This Indenture shall be valid, binding, and enforceable against a party only when executed and delivered by an authorized individual on behalf of the party by means of (i) any electronic signature permitted by the federal Electronic Signatures in Global and National Commerce Act, state enactments of the Uniform Electronic Transactions Act, and/or any other relevant electronic signatures law, including relevant provisions of the Uniform Commercial Code/UCC (collectively, "Signature Law"); (ii) an original manual signature; or (iii) a faxed, scanned, or photocopied manual signature. Each electronic signature or faxed, scanned, or photocopied manual signature shall for all purposes have the same validity, legal effect, and admissibility in evidence as an original manual signature. Each party hereto shall be entitled to conclusively rely upon, and shall have no liability with respect to, any faxed, scanned, or photocopied manual signature, or other electronic signature, of any party and shall have no duty to investigate, confirm or otherwise verify the validity or authenticity thereof. This Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original, but such counterparts shall, together, constitute one and the same instrument. For avoidance of doubt, original manual signatures shall be used for execution or indorsement of writings when required under the UCC or other Signature Law due to the character or intended character of the writings; provided that, notwithstanding anything herein to the contrary, the Trustee is not under any obligation to agree to accept electronic signatures in any form or in any format unless

expressly agreed to by the Trustee pursuant to procedures approved by the Trustee. All notices, approvals, consents, requests and any communications hereunder must be in writing, provided that any such communication sent to Trustee hereunder must be in the form of a document that is signed manually or by way of a digital signature provided by the electronic signature provider that the Issuer plans to use (or such other digital signature provider as specified in writing to Trustee by the authorized representative), in English. The Issuer agrees to assume all risks arising out of the use of using digital signatures and electronic methods to submit communications to Trustee, including without limitation the risk of Trustee acting on unauthorized instructions, and the risk of interception and misuse by third parties.

Section 10.10. *Effect of Headings.* The Article and Section headings herein and the Table of Contents are for convenience only and shall not affect the construction hereof.

Section 10.11. *Separability.* In case any one or more of the provisions contained in the Indenture or in the Securities of any series shall for any reason be held to be invalid, illegal, or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect or impair any other provisions of the Indenture or of such Securities, but the Indenture and such Securities shall be construed as if such invalid or illegal or unenforceable provision had never been contained herein or therein.

Section 10.12. *Force Majeure.* In no event shall the Trustee be responsible or liable for any failure or delay in the performance of its obligations hereunder arising out of or caused by, directly or indirectly, forces beyond its control, including, without limitation, any act or provision of any present or future law or regulation or governmental authority, labor dispute, disease, quarantine, national emergency, malware or ransomware, communications system failure, strikes, work stoppages, accidents, acts of war or terrorism, civil or military disturbances, nuclear or natural catastrophes or acts of God, epidemics, pandemics, and interruptions, loss or malfunctions of utilities, communications or computer (software and hardware) services, unavailability of the Federal Reserve Bank wire or telex system or other wire or other funds transfer system or the unavailability of any securities clearing system; it being understood that the Trustee shall use reasonable efforts which are consistent with accepted practices in the banking industry to resume performance as soon as practicable under the circumstances.

Section 10.13. *U.S.A. Patriot Act.* The parties hereto acknowledge that in accordance with Section 326 of the U.S.A. Patriot Act, the Trustee, like all financial institutions and in order to help fight the funding of terrorism and money laundering, is required to obtain, verify, and record information that identifies each person or legal entity that establishes a relationship or opens an account with the Trustee. The parties to this Indenture agree that they will provide the Trustee with such information as it may request in order for the Trustee to satisfy the requirements of the U.S.A. Patriot Act.

Section 10.14. *Waiver of Jury Trial.* EACH OF THE ISSUER AND THE TRUSTEE HEREBY IRREVOCABLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY AND ALL RIGHT TO TRIAL BY JURY IN ANY LEGAL

ARTICLE 11
REDEMPTION OF SECURITIES AND SINKING FUND PROVISIONS

Section 11.01. *Applicability of Article.* The provisions of this Article shall be applicable to the Securities of any series which are redeemable before their maturity or to any sinking fund for the retirement of Securities of a series except as otherwise specified as contemplated by Section 2.03 for Securities of such series.

Section 11.02. *Notice of Redemption; Partial Redemptions.* Notice of redemption to the Holders of any series to be redeemed as a whole or in part at the option of the Issuer shall be given by mailing notice of such redemption by first class mail, postage prepaid, at least 10 days and not more than 60 days prior to the date fixed for redemption to such Holders of such series, which must be a Business Day, at their last addresses as they shall appear upon the Register, with a copy to the Trustee. Any notice which is mailed in the manner herein provided shall be conclusively presumed to have been duly given, whether or not the Holder receives the notice. Failure to give notice by mail, or any defect in the notice to the Holder of any Security of a series designated for redemption as a whole or in part shall not affect the validity of the proceedings for the redemption of any other Security of such series.

The notice of redemption to each such Holder shall specify the principal amount of each Security of such series held by such Holder to be redeemed, the date fixed for redemption, the redemption price, the place or places of payment, that payment will be made upon presentation and surrender of such Securities, that such redemption is pursuant to the mandatory or optional sinking fund, or both, if such be the case, that interest accrued to the date fixed for redemption will be paid as specified in such notice and that on and after said date interest thereon or on the portions thereof to be redeemed will cease to accrue. In case any Security of a series is to be redeemed in part only the notice of redemption shall state the portion of the principal amount thereof to be redeemed and shall state that on and after the date fixed for redemption, upon surrender of such Security, a new Security or Securities of such series in principal amount equal to the unredeemed portion thereof will be issued.

The notice of redemption of Securities of any series to be redeemed shall be prepared and given by the Issuer or, at the Issuer's request, prepared by the Issuer and given by the Trustee in the name and at the expense of the Issuer. If the Trustee is so directed by written notice set forth in an Officer's Certificate to deliver such notice, the Issuer shall provide such notice to the Trustee no less than 5 days before the notice is to be delivered to Holders, unless a shorter period shall be agreed to by the Trustee.

If less than all the Securities of a series are to be redeemed, the Securities to be redeemed shall be selected by lot by the Depository in the case of Securities represented by a Global

Security, or, in the case of Securities not represented by a Global Security, the Trustee shall select, in such manner as it shall deem fair and appropriate, subject to the applicable procedures of the Depository, Securities of such series to be redeemed in whole or in part. For the avoidance of doubt, the Trustee shall have no duty to make or verify any calculations with respect to any redemption. Securities may be redeemed in part in multiples equal to the minimum authorized denomination for Securities of such series or any multiple thereof. The Trustee shall promptly notify the Issuer in writing of the Securities of such series selected for redemption and, in the case of any Securities of such series selected for partial redemption, the principal amount thereof to be redeemed. For all purposes of the Indenture, unless the context otherwise requires, all provisions relating to the redemption of Securities of any series shall relate, in the case of any Security redeemed or to be redeemed only in part, to the portion of the principal amount of such Security which has been or is to be redeemed.

On or prior to 11:00 a.m., New York time, on any redemption date specified in the notice of redemption given as provided in this Section, the Issuer will deposit with the Trustee or with one or more paying agents (or, if the Issuer is acting as its own paying agent, set aside, segregate and hold in trust as provided in Section 3.03) an amount of money sufficient to redeem on the redemption date all the Securities of such series so called for redemption at the appropriate redemption price, together with accrued interest to the date fixed for redemption. The Trustee is permitted to accept the Issuer's direction regarding redemptions, notwithstanding anything to the contrary in this Indenture, and the Trustee shall have no liability for any action taken at the Issuer's direction.

Section 11.03. *Payment of Securities Called for Redemption.* If notice of redemption has been given as above provided, the Securities or portions of Securities specified in such notice shall become due and payable on the date and at the place stated in such notice at the applicable redemption price, together with interest accrued to the date fixed for redemption, and on and after said date (unless the Issuer shall default in the payment of such Securities at the redemption price, together with interest accrued to said date) interest on the Securities or portions of Securities so called for redemption shall cease to accrue and such Securities shall cease from and after the date fixed for redemption to be entitled to any benefit or security under the Indenture, and the Holders thereof shall have no right in respect of such Securities except the right to receive the redemption price thereof and unpaid interest to the date fixed for redemption. On presentation and surrender of such Securities at a place of payment specified in said notice, said Securities or the specified portions thereof shall be paid and redeemed by the Issuer at the applicable redemption price, together with interest accrued thereon to the date fixed for redemption; provided that any payment of interest becoming due on or before the date fixed for redemption shall be payable to the Holders of such Securities registered as such on the relevant record date.

If any Security called for redemption shall not be so paid upon surrender thereof for redemption, the principal shall, until paid or duly provided for, bear interest from the date fixed

for redemption at the rate of interest or Yield to Maturity (in the case of an Original Issue Discount Security) borne by the Security.

Upon presentation of any Security redeemed in part only, the Issuer shall execute and the Trustee shall authenticate and deliver to or on the order of the Holder thereof, at the expense of the Issuer, a new Security or Securities of such series, of authorized denominations, in principal amount equal to the unredeemed portion of the Security so presented.

Section 11.04. *Exclusion of Certain Securities from Eligibility for Selection for Redemption.* Securities shall be excluded from eligibility for selection for redemption if they are identified by registration and certificate number in a written statement signed by an authorized officer of the Issuer and delivered to the Trustee at least 15 days prior to the last date on which notice of redemption may be given as being owned of record and beneficially by, and not pledged or hypothecated by either (a) the Issuer or (b) an entity specifically identified in such written statement directly or indirectly controlling or controlled by or under direct or indirect common control with the Issuer.

[Signature Page Follows]

IN WITNESS WHEREOF, the parties hereto have caused the Indenture to be duly executed as of the date set forth above.

ILLUMINA, INC., as Issuer

By: /s/ Sam A. Samad

Name: Sam A. Samad

Title: Senior Vice President and
Chief Financial Officer

U.S. BANK NATIONAL ASSOCIATION, as Trustee

By: /s/ Lauren Costales

Name: Lauren Costales

Title: Assistant Vice President

COVINGTON

BEIJING BRUSSELS DUBAI FRANKFURT JOHANNESBURG
LONDON LOS ANGELES NEW YORK PALO ALTO
SAN FRANCISCO SEOUL SHANGHAI WASHINGTON

Covington & Burling LLP
One City Center
850 Tenth Street, NW
Washington, DC 20001-4956
T +1 202 662 6000

March 12, 2021

Illumina, Inc.
5200 Illumina Way
San Diego, California 92122

Ladies and Gentlemen:

We have acted as counsel to Illumina, Inc., a Delaware corporation (the “Company”), in connection with the registration by the Company under the Securities Act of 1933, as amended (the “Securities Act”), of the offer and sale by the Company from time to time of an unlimited number or dollar or foreign currency amount of: (i) shares of the Company’s common stock, par value \$0.01 per share (the “Common Stock”); (ii) shares of the Company’s preferred stock, par value \$0.01 per share, to be issued in one or more series (the “Preferred Stock”); (iii) one or more series of debt securities of the Company (the “Debt Securities”), to be issued pursuant to a debt indenture in substantially the form filed as Exhibit 4.6 to the Registration Statement (as defined below); (iv) warrants to purchase Common Stock, Preferred Stock, Debt Securities or other securities (the “Warrants”); (v) stock purchase contracts that will entitle the holder thereof to purchase or sell a specified number of shares of Common Stock or other securities at a future date or dates (the “Purchase Contracts”); (vi) stock purchase units, consisting of Purchase Contracts and any combination of Common Stock, Preferred Stock, Debt Securities, debt obligations of third parties, including U.S. Treasury securities, or any other securities described in the applicable prospectus supplement, securing the holder’s obligation to purchase the securities under the Purchase Contract (the “Purchase Units”); and (vii) rights to subscribe for and to purchase Common Stock, Preferred Stock, Debt Securities or other securities (the “Subscription Rights” and, collectively with the Common Stock, Preferred Stock, Debt Securities, Warrants, Purchase Contracts and Purchase Units, the “Covered Securities”), pursuant to the Company’s registration statement on Form S-3 (the “Registration Statement”) filed with the United States Securities and Exchange Commission (the “Commission”) on the date hereof.

We have reviewed such corporate records, certificates and other documents, and such questions of law, as we have deemed necessary or appropriate for the purposes of this opinion. We have assumed that all signatures are genuine, that all documents submitted to us as originals are authentic and that all copies of documents submitted to us conform to the originals, and the truthfulness of all statements of fact contained therein.

We have assumed that, at the time of the issuance, sale and delivery of each issue of Covered Securities: (i) the execution, delivery and performance by the Company of the applicable indenture and any indenture supplement (together, the “Indenture”), warrant agreement, stock purchase contract agreement, stock purchase unit agreement, and subscription rights agreement or subscription rights certificate (collectively, the “Documents”), as applicable, and all actions necessary for the issuance of the applicable Covered Securities, and the form and terms thereof, will comply with all requirements and restrictions, if any, applicable to the Company, whether imposed by any agreement or instrument to which the Company is a party or by which it is bound or any court or other governmental or regulatory body having jurisdiction over the Company; (ii) the Company will have duly authorized, executed and delivered any such Document and will have duly authorized the issuance of any such Covered Security, and none of such authorizations will have been modified or rescinded, and there will not have occurred any change in law affecting the validity, legally binding character or enforceability thereof, and (iii) the prospectus included in the

Registration Statement will describe the Covered Securities offered thereby or an appropriate prospectus supplement will have been prepared, delivered and filed with the Commission in compliance with the Securities Act and the applicable rules and regulations thereunder and will describe the Covered Securities offered thereby. We have also assumed that the Covered Securities will be offered and sold in compliance with applicable federal and state securities laws and in the manner stated in the Registration Statement and the appropriate prospectus supplement. We have assumed further that the Documents will be governed by and construed in accordance with the laws of the State of New York. We have further assumed that, at the time of the issuance, sale and delivery of any shares of Common Stock or Preferred Stock, or of any other Covered Securities which are exercisable or exchangeable for, or convertible into, Common Stock or Preferred Stock, the Company has a sufficient number of authorized but unissued shares of Common Stock or Preferred Stock, as the case may be, under its certificate of incorporation. With respect to any Document executed or to be executed by any party other than the Company, we have assumed that such party has, or will have, duly authorized, executed and delivered the Documents to which it is a party and that each such Document is, or will be, the valid and binding obligation of such party, enforceable against it in accordance with its terms.

Additionally, we have relied as to certain matters on information obtained from public officials, officers of the Company and other sources believed by us to be responsible.

Based upon the foregoing, and subject to the qualifications set forth herein, we are of the opinion that, when, as and if:

1. With respect to shares of Common Stock: (i) the Registration Statement and any required post-effective amendments thereto have all become effective under the Securities Act and all prospectus supplements required by applicable law have been delivered and filed as required by such laws; (ii) all necessary corporate action has been taken by the Company to authorize and approve for issuance any shares of Common Stock and to fix or otherwise determine the consideration to be received for the shares of Common Stock, and the terms of the offer and sale thereof; (iii) any legally required consents, approvals, authorizations and other orders of the Commission and any other regulatory authorities have been obtained; and (iv) the shares of Common Stock have been duly issued and delivered against payment of the consideration therefor in accordance with such corporate action and applicable law as contemplated by the Registration Statement and the prospectus supplement and any pricing supplement setting forth the terms of the Common Stock and the plan of distribution, then, upon the happening of such events, the shares of Common Stock will be validly issued, fully paid and non-assessable.

2. With respect to shares of any series of Preferred Stock: (i) the Registration Statement and any required post-effective amendments thereto have all become effective under the Securities Act and all prospectus supplements required by applicable law have been delivered and filed as required by such laws; (ii) all necessary corporate action has been taken by the Company to establish the rights, preferences and privileges of, and limitations on, such series of Preferred Stock and to authorize and approve the issuance and sale of the shares of Preferred Stock of such series and fix or otherwise determine the consideration to be received for the shares of Preferred Stock, and the terms of the offer and sale thereof; (iii) any legally required consents, approvals, authorizations and other orders of the Commission and any other regulatory authorities have been obtained; (iv) an appropriate certificate of designations with respect to such series of Preferred Stock has been duly filed in accordance with applicable law; and (v) the shares of Preferred Stock have been duly issued and delivered against payment of the consideration therefor in accordance with such

corporate action and applicable law and as contemplated in the Registration Statement and the prospectus supplement and any pricing supplement setting forth the terms of the Preferred Stock and the plan of distribution, then, upon the happening of such events, the shares of such series of Preferred Stock will be validly issued, fully paid and non-assessable.

3. With respect to the Debt Securities: (i) the Registration Statement and any required post-effective amendments thereto have all become effective under the Securities Act and all prospectus supplements required by applicable law have been delivered and filed as required by such laws; (ii) the Indenture has been duly authorized, executed and delivered on behalf of the Company and U.S. Bank National Association, as Trustee (the “Trustee”) and such Indenture has been duly qualified under the Trust Indenture Act of 1939, as amended; (iii) all necessary corporate action has been taken by the Company to authorize, execute and deliver any necessary indenture supplement and to authorize the form, terms, execution and delivery of the Debt Securities; (iv) any legally required consents, approvals, authorizations and other orders of the Commission and any other regulatory authorities have been obtained; and (v) such Debt Securities have been duly executed by the Company and authenticated by the Trustee in accordance with the Indenture, and have been duly issued and delivered against payment therefor in accordance with such corporate action and applicable law and as contemplated in the Registration Statement and the prospectus supplement setting forth the terms of the Debt Securities and the plan of distribution, then, upon the happening of such events, such Debt Securities (including any Debt Securities to be issued by the Company upon the conversion or exercise of other Covered Securities issued by the Company pursuant to the Registration Statement) will constitute the valid and binding obligations of the Company, enforceable against the Company in accordance with their terms, subject to bankruptcy, insolvency, fraudulent transfer, reorganization, moratorium and other laws of general applicability relating to or affecting creditors’ rights and to general equity principles.

4. With respect to the Warrants: (i) the Registration Statement and any required post-effective amendments thereto all have become effective under the Securities Act and all prospectus supplements required by applicable law have been delivered and filed as required by such laws; (ii) all necessary corporate action has been taken by the Company to authorize, execute and deliver a warrant agreement and to authorize the form, terms, execution and delivery of any Warrants and to fix or otherwise determine the consideration to be received for the Warrants and the terms of the offer and sale thereof; (iii) any legally required consents, approvals, authorizations and other orders of the Commission and any other regulatory authorities have been obtained; (iv) any shares of Common Stock or Preferred Stock or any Debt Securities or other securities purchasable upon exercise of such Warrants, as applicable, have been duly and validly authorized and, with respect to shares of Common Stock or Preferred Stock, reserved for issuance and sale; and (v) the warrant agreement with respect to the Warrants has been duly authorized, executed and delivered by the Company and the warrant agent, and the Warrants have been duly executed and delivered by the Company against payment therefor in accordance with any applicable warrant agreement, and in accordance with such corporate action and applicable law and as contemplated in the Registration Statement and the prospectus supplement setting forth the terms of the Warrants and the plan of distribution, then, upon the happening of such events, the Warrants will constitute the valid and binding obligations of the Company, enforceable against the Company in accordance with their terms, subject to bankruptcy, insolvency, fraudulent transfer, reorganization, moratorium and other laws of general applicability relating to or affecting creditors’ rights and to general equity principles.

5. With respect to the Purchase Contracts and Purchase Units: (i) the Registration Statement and any required post-effective amendments thereto all have become effective under the Securities Act and all prospectus supplements required by applicable law have been delivered and filed as required by such laws; (ii) all necessary corporate action has been taken by the Company to authorize, execute and deliver a purchase contract agreement or a purchase unit agreement, as applicable, and to authorize the form, terms, execution and delivery of the Purchase Contracts or Purchase Units, as applicable, and to fix or otherwise determine the consideration to be received for the Purchase Contracts or Purchase Units, as applicable, and the terms of the offer and sale thereof; (iii) any legally required consents, approvals, authorizations and other orders of the Commission and any other regulatory authorities have been obtained; (iv) any shares of Common Stock or Preferred Stock or any Debt Securities or other securities to be issued pursuant to such Purchase Contracts or Purchase Units as applicable, have been duly and validly authorized and, with respect to shares of Common Stock or Preferred Stock, reserved for issuance and sale; and (v) any necessary purchase contract agreement or purchase unit agreement, as applicable, has been duly authorized, executed and delivered by the Company and any other party thereto, and the Purchase Contracts or Purchase Units, as applicable, have been duly executed and delivered by the Company against payment therefor in accordance with any applicable purchase contract agreement or purchase unit agreement, and in accordance with such corporate action and applicable law and as contemplated in the Registration Statement and the prospectus supplement setting forth the terms of the Purchase Contracts or Purchase Units, as applicable, and the plan of distribution, then, upon the happening of such events, the Purchase Contracts or Purchase Units, as applicable, will constitute the valid and binding obligations of the Company, enforceable against the Company in accordance with their terms, subject to bankruptcy, insolvency, fraudulent transfer, reorganization, moratorium and other laws of general applicability relating to or affecting creditors' rights and to general equity principles.

6. With respect to the Subscription Rights: (i) the Registration Statement and any required post-effective amendments thereto all have become effective under the Securities Act and all prospectus supplements required by applicable law have been delivered and filed as required by such laws; (ii) all necessary corporate action has been taken by the Company to authorize, execute and deliver a subscription agreement or subscription rights certificate to the rights agent and to authorize the form, terms, execution and delivery of the Subscription Rights and to fix or otherwise determine the consideration to be received for the Subscription Rights and the terms of the offer and sale thereof; (iii) any legally required consents, approvals, authorizations and other orders of the Commission and any other regulatory authorities have been obtained; (iv) any shares of Common Stock or Preferred Stock or any Debt Securities or other securities purchasable upon exercise of such Subscription Rights, as applicable, have been duly and validly authorized and, with respect to shares of Common Stock or Preferred Stock, reserved for issuance and sale; and (v) any necessary subscription agreement or subscription rights certificate has been duly authorized, executed by the Company and the rights agent, and the Subscription Rights have been duly executed and delivered by the Company against payment therefor in accordance with any applicable subscription agreement or subscription rights certificate, and in accordance with such corporate action and applicable law and as contemplated in the Registration Statement and the prospectus supplement setting forth the terms of the Subscription Rights and the plan of distribution, then, upon the happening of such events, the Subscription Rights will constitute the valid and binding obligations of the Company, enforceable against the Company in accordance with their terms, subject to bankruptcy, insolvency, fraudulent transfer, reorganization, moratorium and other laws of general applicability relating to or affecting creditors' rights and to general equity principles.

COVINGTON

Illumina, Inc.

Page 5

Our opinions above are qualified to the extent that the enforcement of any Covered Securities denominated in a currency other than United States dollars may be limited by requirements that a claim (or a foreign currency judgment in respect of such claim) be converted into United States dollars at a rate of exchange prevailing on a date determined pursuant to applicable law.

We express no opinion as to: (i) waivers of defenses, subrogation and related rights, rights to trial by jury, rights to object to venue, or other rights or benefits bestowed by operation of law; (ii) releases or waivers of unmatured claims or rights; (iii) indemnification, contribution, exculpation, or arbitration provisions, or provisions for the non-survival of representations, to the extent they purport to indemnify any party against, or release or limit any party's liability for, its own breach or failure to comply with statutory obligations, or to the extent such provisions are contrary to public policy; (iv) provisions for liquidated damages and penalties, penalty interest and interest on interest; or (v) provisions making notices effective even if not actually received.

We are members of the bars of the District of Columbia and the State of New York. We do not express any opinion herein on any laws other than the law of the State of New York and the Delaware General Corporation Law.

We hereby consent to the filing of this opinion as Exhibit 5.1 to the Registration Statement. We also hereby consent to the reference to our firm under the heading "Legal Matters" in the prospectus constituting part of the Registration Statement. In giving such consent, we do not thereby admit that we are in the category of persons whose consent is required under Section 7 of the Securities Act.

Very truly yours,

/s/ Covington & Burling LLP

Consent of Independent Registered Public Accounting Firm

We consent to the reference to our firm under the caption “Experts” in the Registration Statement (Form S-3) and related Prospectus of Illumina, Inc. for the registration of its common stock, preferred stock, debt securities, warrants, stock purchase contracts, stock purchase units, and subscription rights and to the incorporation by reference therein of our reports dated February 16, 2021, with respect to the consolidated financial statements of Illumina, Inc., and the effectiveness of internal control over financial reporting of Illumina, Inc., included in its Annual Report (Form 10-K) for the year ended January 3, 2021, filed with the Securities and Exchange Commission.

/s/ Ernst & Young LLP

San Diego, California
March 11, 2021

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM T-1

**STATEMENT OF ELIGIBILITY
UNDER THE TRUST INDENTURE ACT OF 1939
OF A CORPORATION DESIGNATED TO ACT AS TRUSTEE**

Check if an Application to Determine Eligibility of a Trustee Pursuant to Section 305(b)(2)

U.S. BANK NATIONAL ASSOCIATION

(Exact name of Trustee as specified in its charter)

31-0841368

I.R.S. Employer Identification No.

800 Nicollet Mall
Minneapolis, Minnesota
(Address of principal executive offices)

55402
(Zip Code)

Lauren Costales
U.S. Bank National Association
633 West 5th Street
Los Angeles, CA 90071
(213) 615-6527

(Name, address and telephone number of agent for service)

ILLUMINA, INC.
(Issuer with respect to the Securities)

Delaware
(State or other jurisdiction of
incorporation or organization)

33-0804655
(I.R.S. Employer
Identification No.)

5200 Illumina Way
San Diego, California
(Address of Principal Executive Offices)

92122
(Zip Code)

Debt Securities
(Title of the Indenture Securities)

FORM T-1

Item 1. GENERAL INFORMATION. Furnish the following information as to the Trustee.

- a) *Name and address of each examining or supervising authority to which it is subject.*
Comptroller of the Currency
Washington, D.C.
- b) *Whether it is authorized to exercise corporate trust powers.*
Yes

Item 2. AFFILIATIONS WITH THE OBLIGOR. *If the obligor is an affiliate of the Trustee, describe each such affiliation.*

None

Items 3-15 *Items 3-15 are not applicable because to the best of the Trustee's knowledge, the obligor is not in default under any Indenture for which the Trustee acts as Trustee.*

Item 16. LIST OF EXHIBITS: *List below all exhibits filed as a part of this statement of eligibility and qualification.*

- 1. A copy of the Articles of Association of the Trustee.*
- 2. A copy of the certificate of authority of the Trustee to commence business, attached as Exhibit 2.
- 3. A copy of the certificate of authority of the Trustee to exercise corporate trust powers, attached as Exhibit 3.
- 4. A copy of the existing bylaws of the Trustee.**
- 5. A copy of each Indenture referred to in Item 4. Not applicable.
- 6. The consent of the Trustee required by Section 321(b) of the Trust Indenture Act of 1939, attached as Exhibit 6.
- 7. Report of Condition of the Trustee as of December 31, 2020 published pursuant to law or the requirements of its supervising or examining authority, attached as Exhibit 7.

* Incorporated by reference to Exhibit 25.1 to Amendment No. 2 to registration statement on S-4, Registration Number 333-128217 filed on November 15, 2005.

** Incorporated by reference to Exhibit 25.1 to registration statement on form S-3ASR, Registration Number 333-199863 filed on November 5, 2014.

SIGNATURE

Pursuant to the requirements of the Trust Indenture Act of 1939, as amended, the Trustee, U.S. BANK NATIONAL ASSOCIATION, a national banking association organized and existing under the laws of the United States of America, has duly caused this statement of eligibility and qualification to be signed on its behalf by the undersigned, thereunto duly authorized, all in the City of Los Angeles, State of California on the 12th of March, 2021.

By: /s/ Lauren Costales

Lauren Costales

Assistant Vice President



CERTIFICATE OF CORPORATE EXISTENCE

I, Brian Brooks, Acting Comptroller of the Currency, do hereby certify that:

1. The Comptroller of the Currency, pursuant to Revised Statutes 324, et seq, as amended, and 12 USC 1, et seq, as amended, has possession, custody, and control of all records pertaining to the chartering, regulation, and supervision of all national banking associations.
2. "U.S. Bank National Association," Cincinnati, Ohio (Charter No. 24), is a national banking association formed under the laws of the United States and is authorized thereunder to transact the business of banking on the date of this certificate.

IN TESTIMONY WHEREOF, today, June 1, 2020, I have hereunto subscribed my name and caused my seal of office to be affixed to these presents at the U.S. Department of the Treasury, in the City of Washington, District of Columbia

/s/ Brian Brooks

Acting Comptroller of the Currency





CERTIFICATE OF FIDUCIARY POWERS

I, Brian Brooks, Acting Comptroller of the Currency, do hereby certify that:

1. The Office of the Comptroller of the Currency, pursuant to Revised Statutes 324, et seq, as amended, and 12 USC 1, et seq, as amended, has possession, custody, and control of all records pertaining to the chartering, regulation, and supervision of all national banking associations.
2. "U.S. Bank National Association," Cincinnati, Ohio (Charter No. 24), was granted, under the hand and seal of the Comptroller, the right to act in all fiduciary capacities authorized under the provisions of the Act of Congress approved September 28, 1962, 76 Stat. 668, 12 USC 92a, and that the authority so granted remains in full force and effect on the date of this certificate.

IN TESTIMONY WHEREOF, today, June 1, 2020, I have hereunto subscribed my name and caused my seal of office to be affixed to these presents at the U.S. Department of the Treasury, in the City of Washington, District of Columbia.

/s/ Brian Brooks

Acting Comptroller of the Currency



Exhibit 6

CONSENT

In accordance with Section 321(b) of the Trust Indenture Act of 1939, the undersigned, U.S. BANK NATIONAL ASSOCIATION hereby consents that reports of examination of the undersigned by Federal, State, Territorial or District authorities may be furnished by such authorities to the Securities and Exchange Commission upon its request therefor.

Dated: March 12, 2021

By: /s/ Lauren Costales
Lauren Costales
Assistant Vice President

Exhibit 7

**U.S. Bank National Association
Statement of Financial Condition
As of 12/31/2020**

(\$000's)

	<u>12/31/2020</u>
Assets	
Cash and Balances Due From Depository Institutions	\$ 62,424,852
Securities	135,372,305
Federal Funds	149
Loans & Lease Financing Receivables	299,153,643
Fixed Assets	7,454,095
Intangible Assets	12,786,750
Other Assets	27,582,366
Total Assets	\$544,774,160
Liabilities	
Deposits	\$442,835,836
Fed Funds	1,175,229
Treasury Demand Notes	0
Trading Liabilities	1,036,903
Other Borrowed Money	29,719,033
Acceptances	0
Subordinated Notes and Debentures	3,850,000
Other Liabilities	14,494,315
Total Liabilities	\$491,385,123
Equity	
Common and Preferred Stock	18,200
Surplus	14,266,915
Undivided Profits	38,303,668
Minority Interest in Subsidiaries	800,323
Total Equity Capital	\$ 53,389,106
Total Liabilities and Equity Capital	\$544,774,160