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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

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**FORM 8-K**

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**CURRENT REPORT**  
Pursuant to Section 13 or 15(d) of the  
Securities Exchange Act of 1934

**Date of Report (Date of earliest event reported): March 31, 2017**

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**Applied Materials, Inc.**

(Exact name of registrant as specified in its charter)

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**Delaware**  
(State or other jurisdiction  
of incorporation)

**000-06920**  
(Commission  
File Number)

**94-1655526**  
(IRS Employer  
Identification No.)

**3050 Bowers Avenue**  
**P.O. Box 58039**  
**Santa Clara, CA**  
(Address of principal executive offices)

**95052-8039**  
(Zip Code)

**Registrant's telephone number, including area code: (408) 727-5555**

**N/A**  
(Former name or former address, if changed since last report.)

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Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
  - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
  - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
  - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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### **Item 1.01 Entry into a Material Definitive Agreement.**

On March 31, 2017, Applied Materials, Inc. (“Applied”) completed a registered public offering of senior unsecured notes in the aggregate principal amount of \$2.2 billion (collectively, the “Notes”). Applied issued the Notes under an indenture dated as of June 8, 2011 (the “Base Indenture”), between Applied and U.S. Bank National Association, as trustee (the “Trustee”), as supplemented by a third supplemental indenture dated as of March 31, 2017 (the “Third Supplemental Indenture” and together with the Base Indenture, the “Indenture”), between Applied and the Trustee establishing the terms and form of the Notes. The Notes consist of the following tranches: \$1.2 billion aggregate principal amount of 3.300% senior unsecured notes due 2027 (the “2027 Notes”) and \$1.0 billion aggregate principal amount of 4.350% senior unsecured notes due 2047 (the “2047 Notes”). Interest is payable on the Notes semi-annually in arrears on April 1 and October 1 of each year, commencing October 1, 2017.

Applied intends to use a portion of the net proceeds to redeem or repay Applied’s outstanding \$200 million 7.125% senior notes due October 2017 and the balance for general corporate purposes. The foregoing does not constitute a notice of redemption or an obligation to issue a notice of redemption for the 7.125% senior notes.

The Indenture contains limited covenants of Applied. The negative covenants limit the ability of Applied and its subsidiaries to incur debt secured by liens on its principal property or on shares of stock of its principal subsidiaries; to engage in sale and lease-back transactions with respect to any principal property; and to consolidate, merge or sell all or substantially all of its assets. Applied may be required to offer to repurchase the Notes upon a change in control and a contemporaneous downgrade of the Notes below an investment grade rating, and it may elect to redeem the Notes in whole or in part at any time, as further specified in the Indenture.

Events of default under the Indenture include a failure to make payments, non-performance of covenants, and bankruptcy and insolvency-related events. Applied’s obligations may be accelerated upon an event of default, in which case the entire principal amount of the Notes would become immediately due and payable.

The foregoing description of certain terms of the Indenture does not purport to be complete and is qualified in its entirety by reference to the full text of the Base Indenture, which was filed with the Securities and Exchange Commission on June 10, 2011 as Exhibit 4.1 to the Company’s Current Report on Form 8-K and incorporated by reference into the Company’s registration statement on Form S-3 (File No. 333-205584), and the Third Supplemental Indenture (including the form of note for the Notes), which is filed with this report as Exhibit 4.1, and incorporated herein by reference.

### **Item 8.01. Other Events.**

Cleary Gottlieb Steen & Hamilton LLP, counsel to Applied, has issued an opinion to Applied dated March 31, 2017 regarding the legality of the Notes. A copy of the opinion is filed as Exhibit 5.1 hereto.

### **Item 9.01 Financial Statements and Exhibits.**

(d) Exhibits.

<u>Exhibit No.</u>	<u>Description</u>
4.1	Third Supplemental Indenture dated March 31, 2017, by and between Applied Materials, Inc. and U.S. Bank National Association.
4.2	Form of Note for the 2027 Notes (included in Exhibit 4.1 above).
4.3	Form of Note for the 2047 Notes (included in Exhibit 4.1 above).
5.1	Opinion of Cleary Gottlieb Steen & Hamilton LLP.
23.1	Consent of Cleary Gottlieb Steen & Hamilton LLP (included in the opinion filed as Exhibit 5.1 above).

**SIGNATURE**

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

Applied Materials, Inc.  
(Registrant)

Dated: March 31, 2017

By: /s/ Thomas F. Larkins  
Thomas F. Larkins  
*Senior Vice President,  
General Counsel and Corporate Secretary*

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## EXHIBIT INDEX

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APPLIED MATERIALS, INC.  
as Issuer

AND

U.S. Bank National Association,  
as Trustee

THIRD SUPPLEMENTAL INDENTURE  
Dated as of March 31, 2017

\$1,200,000,000 of 3.300% Senior Notes due 2027

and

\$1,000,000,000 of 4.350% Senior Notes due 2047

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THIS THIRD SUPPLEMENTAL INDENTURE (the “**Third Supplemental Indenture**”) is dated as of March 31, 2017 between APPLIED MATERIALS, INC., a Delaware corporation (the “**Company**”), and U.S. Bank National Association, a national banking association (the “**Trustee**”).

## RECITALS

A. The Company and the Trustee executed and delivered an Indenture, dated as of June 8, 2011, (the “**Base Indenture**” and, as supplemented by the Third Supplemental Indenture, the “**Indenture**”), to provide for the issuance by the Company from time to time of unsubordinated debt securities evidencing its unsecured indebtedness.

B. Pursuant to a Board Resolution, the Company has authorized the issuance of \$1,200,000,000 principal amount of 3.300% Senior Notes due 2027 (the “**2027 Notes**”) and \$1,000,000,000 principal amount of 4.350% Senior Notes due 2047 (the “**2047 Notes**” and, together with the 2027 Notes, the “**Notes**”).

C. The entry into this Third Supplemental Indenture by the parties hereto is in all respects authorized by the provisions of the Base Indenture.

D. The Company desires to enter into this Third Supplemental Indenture pursuant to Section 9.01 of the Base Indenture to establish the terms of the Notes in accordance with Section 2.01 of the Base Indenture and to establish the form of the Notes in accordance with Sections 2.01(a)(10) and 2.02 of the Base Indenture.

E. All things necessary to make this Third Supplemental Indenture a valid and legally binding agreement according to its terms have been done.

NOW, THEREFORE, for and in consideration of the foregoing premises, the Company and the Trustee mutually covenant and agree for the equal and proportionate benefit of the respective holders from time to time of the Notes as follows:

## ARTICLE I

### Section 1.1 Terms of the Notes.

The following terms relate to the Notes:

(1) The 2027 Notes shall constitute a series of Notes having the title “3.300% Senior Notes due 2027” and the 2047 Notes shall constitute a separate series of Notes having the title “4.350% Senior Notes due 2047”.

(2) The aggregate principal amount of the 2027 Notes (the “**Initial 2027 Notes**”) and the 2047 Notes (the “**Initial 2047 Notes**” and, together with the Initial 2027 Notes, the “**Initial Notes**”) that may be initially authenticated and delivered under the Indenture shall be \$1,200,000,000 and \$1,000,000,000, respectively. The Company may from time to time, without the consent of the Holders of Notes, issue additional 2027 Notes (in any such case “**Additional 2027 Notes**”) or additional 2047 Notes (in any such case “**Additional 2047 Notes**”) having the same ranking and the same interest rate, maturity and other terms as the Initial 2027 Notes or the Initial 2047 Notes, as the case may be. Any Additional 2027 Notes and the Initial 2027 Notes and any Additional 2047 Notes and the Initial 2047 Notes, as the case may be, shall each constitute a single series under the Indenture and all references to the 2027 Notes shall include the Initial 2027 Notes and any Additional 2027 Notes and all references to the 2047 Notes shall include the Initial 2047 Notes and any Additional 2047 Notes, unless the context otherwise requires; provided that unless such Additional 2027 Notes or Additional 2047 Notes are issued pursuant to a “qualified reopening” of the Initial 2027 Notes or Initial 2047 Notes, respectively or are otherwise treated as part of the same “issue” of debt instruments as the Initial 2027 Notes or the Initial 2047 Notes, respectively, or are issued with no more than a de minimis amount of original discount, in each case, for U.S. federal income tax purposes, the applicable Additional Notes will have a separate CUSIP number. The aggregate principal amount of each of the Additional 2027 Notes and Additional 2047 Notes shall be unlimited.

(3) The entire Outstanding principal of the 2027 Notes and 2047 Notes shall be payable on April 1, 2027 and on April 1, 2047, respectively.

(4) The rate at which the Notes shall bear interest shall be 3.300% per year for the 2027 Notes and 4.350% per year for the 2047 Notes. The date from which interest shall accrue on the Notes shall be the most recent Interest Payment Date to which interest has been paid or provided for or, if no interest has been paid, from March 31, 2017. The Interest Payment Dates for the Notes shall be April 1 and October 1 of each year, beginning October 1, 2017. Interest shall be payable on each Interest Payment Date to the holders of record at the close of business on the March 15 and September 15 prior to each Interest Payment Date (a “**regular record date**”). The basis upon which interest shall be calculated shall be that of a 360-day year consisting of twelve 30-day months.

(5) The Notes shall be issuable in whole in the form of one or more registered Global Securities, and the Depository for such Global Securities shall be The Depository Trust Company, New York, New York. The Notes shall be substantially in the form attached hereto as Exhibit A (2027 Notes) and Exhibit B (2047 Notes) the terms of which are herein incorporated by reference. The Notes shall be issuable in denominations of \$2,000 or any integral multiple of \$1,000 in excess thereof.

(6) The Notes may be redeemed at the option of the Company prior to the maturity date, as provided in Section 1.3 hereof.

(7) The Notes will not have the benefit of any sinking fund.

(8) Except as provided herein, the holders of the Notes shall have no special rights in addition to those provided in the Base Indenture upon the occurrence of any particular events.

(9) The Notes will be general unsecured and unsubordinated obligations of the Company and will be ranked equally among themselves.

(10) The Notes are not convertible into shares of common stock or other securities of the Company.

(11) The restrictive covenant set forth in Section 1.4 hereof shall be applicable to the Notes.

#### Section 1.2 Additional Defined Terms.

As used herein, the following defined terms shall have the following meanings with respect to the Notes only:

“**Below Investment Grade Rating Event**” means the Notes are downgraded below Investment Grade Rating by both Rating Agencies on any date during the period (the “**Trigger Period**”) commencing 60 days prior to the first public announcement by the Company of the occurrence of a Change of Control (or pending Change of Control) and ending 60 days following consummation of such Change of Control (which Trigger Period shall be extended so long as the rating of the Notes is under publicly announced consideration for possible downgrade by either of such Rating Agencies on such 60th day, such extension to last with respect to each such Rating Agency until the date on which such Rating Agency considering such possible downgrade either (x) rates the Notes below Investment Grade or (y) publicly announces that it is no longer considering the Notes for possible downgrade, provided that no such extension will occur if on such 60th day the Notes are rated Investment Grade by at least one of such Rating Agencies in question and are not subject to review for possible downgrade by such Rating Agency).

“**Change of Control**” means the occurrence of any of the following: (1) direct or indirect sale, transfer, conveyance or other disposition (other than by way of merger or consolidation), in one or a series of related transactions, of all or substantially all of the properties or assets of the Company and its subsidiaries taken as a whole to any “person” (as that term is used in Section 13(d)(3) of the Exchange Act)

other than the Company or one of its direct or indirect wholly-owned subsidiaries; (2) the consummation of any transaction (including, without limitation, any merger or consolidation) as a result of which any “person” (as that term is used in Section 13(d)(3) of the Exchange Act) becomes the “beneficial owner” (as defined in Rules 13d-3 and 13d-5 under the Exchange Act), directly or indirectly, of more than 50% of the Company’s outstanding Voting Stock or other Voting Stock into which the Company’s Voting Stock is reclassified, consolidated, exchanged or changed, measured by voting power rather than number of shares; (3) the Company consolidates with, or merges with or into, any “person” or “group” (as that term is used in Section 13(d)(3) of the Exchange Act), or any “person” or “group” consolidates with, or merges with or into, the Company, in any such event pursuant to a transaction in which any of the Company’s Voting Stock or the Voting Stock of such other person is converted into or exchanged for cash, securities or other property, other than any such transaction where the shares of the Company’s Voting Stock outstanding immediately prior to such transaction constitute, or are converted into or exchanged for, a majority of the Voting Stock of the surviving person or any direct or indirect parent company of the surviving person immediately after giving effect to such transaction; (4) the first day on which a majority of the members of the Company’s board of directors are not Continuing Directors; or (5) the adoption of a plan by the board of directors of the Company or its stockholders relating to the Company’s liquidation or dissolution. Notwithstanding the foregoing, a transaction will not be deemed to involve a Change of Control if (a) the Company becomes a direct or indirect wholly owned subsidiary of a holding company (which shall include a parent company) and (b)(i) the holders of the Voting Stock of such holding company immediately following that transaction are substantially the same as the holders of our Voting Stock immediately prior to that transaction or (ii) no “person” (as that term is used in Section 13(d)(3) of the Exchange Act) (other than a holding company satisfying the requirements of this sentence) becomes the “beneficial owner” (as defined in Rules 13d-3 and 13d-5 under the Exchange Act), directly or indirectly, of more than 50% of the voting power of the Voting Stock of such holding company immediately following such transaction.

“**Change of Control Triggering Event**” means the occurrence of both a Change of Control and a Below Investment Grade Rating Event.

“**Comparable Treasury Issue**” means the United States Treasury security selected by the Independent Investment Banker as having an actual or interpolated maturity comparable to the remaining term of the Notes to be redeemed that would be utilized, at the time of selection and in accordance with customary financial practice, in pricing new issues of corporate debt securities of comparable maturity to the remaining term of the Notes to be redeemed.

“**Comparable Treasury Price**” means, with respect to any redemption date, (a) the average of the Reference Treasury Dealer Quotations for such redemption date, after excluding the highest and lowest of the Reference Treasury Dealer Quotations, (b) if the Company obtains fewer than four Reference Treasury Dealer Quotations, the arithmetic average of those quotations or (c) if the Company obtains only one Reference Treasury Dealer Quotation, such Reference Treasury Dealer Quotation.

“**Continuing Directors**” means, as of any date of determination, any member of the Board of Directors of the Company who (1) was a member of the Board of Directors of the Company on the date of the issuance of the Notes; or (2) was nominated for election or elected to the Board of Directors of the Company with the approval of a majority of the Continuing Directors who were members of such Board of Directors of the Company at the time of such nomination or election (either by specific vote or by approval of the Company’s proxy statement in which such member was named as a nominee for election as a director, without objection to such nomination).

“**Independent Investment Banker**” means the Reference Treasury Dealer appointed by the Company as Independent Investment Banker.

“**Investment Grade Rating**” means a rating by Moody’s equal to or higher than Baa3 (or the equivalent under a successor rating category of Moody’s) or a rating by S&P equal to or higher than BBB- (or the equivalent under any successor rating category of S&P).

“**Moody’s**” means Moody’s Investors Service, Inc.



**“Optional Redemption Date”** when used with respect to any Note to be redeemed at the Company’s option, means the date fixed for such redemption by or pursuant to Section 1.3 of this Third Supplemental Indenture.

**“Optional Redemption Price”** when used with respect to any Note to be redeemed at the Company’s option, means the price at which it is to be redeemed pursuant to Section 1.3 of this Third Supplemental Indenture.

**“Rating Agencies”** means (1) Moody’s and S&P; and (2) if any of Moody’s or S&P ceases to rate the Notes or fails to make a rating of the Notes publicly available for any reason, a “nationally recognized statistical rating organization” as such term is defined under Section 3(a)(62) under the Exchange Act, selected by the Company (as certified by a resolution of the Board of Directors) as a replacement agency for either of Moody’s or S&P, or both of them, as the case may be.

**“Reference Treasury Dealer”** means each of (i) J.P. Morgan Securities LLC, Citigroup Global Markets Inc. and a primary U.S. Government securities dealer designated by MUFG Securities Americas Inc. and their respective successors and (ii) one other nationally recognized investment banking firm (or its affiliate) that the Company selects in connection with the particular redemption, and its successor, provided that if at any time any of the above, or any of their designees, is not a primary U.S. Government securities dealer, the Company will substitute that entity with another nationally recognized investment banking firm that the Company selects that is a primary U.S. Government securities dealer.

**“Reference Treasury Dealer Quotations”** means, with respect to each Reference Treasury Dealer and any redemption date, the arithmetic average of the bid and asked prices for the Comparable Treasury Issue (expressed in each case as a percentage of its principal amount) quoted in writing to the Company by such Reference Treasury Dealer at 3:30 p.m., New York City time, on the third business day preceding such redemption date.

**“Remaining Scheduled Payments”** means, with respect to each Note to be redeemed, the remaining scheduled payments of the principal thereof and interest thereon that would be due after the related redemption date for such redemption; provided, however, that, if such redemption date is not an interest payment date with respect to such Note, the amount of the next succeeding scheduled interest payment thereon will be reduced by the amount of interest accrued thereon to such redemption date.

**“S&P”** means Standard & Poor’s Ratings Services, a subsidiary of The McGraw-Hill Companies, Inc., and any successor to its rating agency business.

**“Treasury Rate”** means, for any redemption date, the rate per annum equal to the semi-annual equivalent yield to maturity or interpolated yield to maturity, computed as of the third business day immediately preceding that redemption date, of the Comparable Treasury Issue, assuming a price for the Comparable Treasury Issue (expressed as a percentage of its principal amount) equal to the Comparable Treasury Price for that redemption date.

#### Section 1.3 Optional Redemption.

(a) The provisions of Article Three of the Base Indenture, as amended by the provisions of this Third Supplemental Indenture, shall apply to the Notes with respect to this Section 1.3.

(b) The Notes shall be redeemable, in each case, in whole at any time or in part from time to time, at the Company’s option at the applicable Optional Redemption Price, equal to:

(i) with respect to the 2027 Notes, at any time prior to January 1, 2027 (three months prior to the maturity of the 2027 Notes), the greater of (x) 100% of the principal amount of such 2027 Notes and (y) the sum of the present values of the Remaining Scheduled Payments of the 2027 Notes to be redeemed, discounted to the Optional Redemption Date on a semi-annual basis (assuming a 360-day year consisting of twelve 30-day months) using a discount rate equal to the Treasury Rate (as defined below) plus 15 basis points, provided that, if the 2027 Notes are redeemed on or after January 1, 2027 (three months prior to the maturity of the 2027 Notes) the Optional Redemption Price will equal 100% of the principal amount of such 2027 Notes; and

(ii) with respect to the 2047 Notes, at any time prior to October 1, 2046 (six months prior to the maturity of the 2047 Notes), the greater of (x) 100% of the principal amount of such 2047 Notes and (y) the sum of the present values of the Remaining Scheduled Payments of the 2047 Notes to be redeemed, discounted to the Optional Redemption Date on a semi-annual basis (assuming a 360-day year consisting of twelve 30-day months) using a discount rate equal to the Treasury Rate plus 20 basis points, provided that, if the 2047 Notes are redeemed on or after October 1, 2046 (six months prior to the maturity of the 2047 Notes) the Optional Redemption Price will equal 100% of the principal amount of such 2047 Notes;

*plus*, in addition to such Optional Redemption Price, in each case, accrued and unpaid interest thereon to, but excluding, the Optional Redemption Date. Notwithstanding the foregoing, installments of interest whose Stated Maturity is on or prior to the Optional Redemption Date shall be payable on the applicable Interest Payment Date to the Securityholders of such Notes registered as such at the close of business on the applicable record date pursuant to the Notes and the Indenture.

(c) On and after the Optional Redemption Date for the Notes, interest shall cease to accrue on the Notes or any portion thereof called for redemption, unless the Company defaults in the payment of the Optional Redemption Price and accrued interest, if any. On or before 12:00 p.m., New York City time, on the Optional Redemption Date for the Notes, the Company shall deposit with the Trustee or a paying agent, funds sufficient to pay the Optional Redemption Price of the Notes to be redeemed on the Optional Redemption Date, and (except if the date fixed for redemption shall be an Interest Payment Date) accrued interest, if any. If less than all of the Notes are to be redeemed, the Notes shall be redeemed in accordance with Section 3.02 of the Base Indenture.

(d) Notice of any optional redemption shall be mailed at least 30 days but not more than 60 days before the Optional Redemption Date to each holder of the Notes to be redeemed; provided, however, that the Company shall notify the Trustee of the Optional Redemption Date at least 15 days prior to the date of the giving of such notice (unless a shorter notice shall be satisfactory to the Trustee). Such notice shall be provided in accordance with Section 3.02 of the Base Indenture. If the Optional Redemption Price cannot be determined at the time such notice is to be given, the actual Optional Redemption Price, calculated as described above in clause (b), shall be set forth in an Officers' Certificate of the Company delivered to the Trustee no later than two (2) Business Days prior to the Optional Redemption Date. Notice of redemption having been given as provided in the Indenture, the Notes called for redemption shall, on the Optional Redemption Date, become due and payable at the Optional Redemption Price, and accrued and unpaid interest, if any, to, but excluding, the Optional Redemption Date.

#### Section 1.4 Additional Covenant.

The following additional covenant shall apply with respect to the Notes so long as any of the Notes remain Outstanding:

##### (1) Change of Control Triggering Event.

(a) If a Change of Control Triggering Event occurs with respect to the Notes, unless the Company shall have exercised its option to redeem the Notes in full, as set forth in Section 1.3 of this Third Supplemental Indenture, or the Company shall have defeased the Notes or have satisfied and discharged the Notes, as set forth in Article XI of the Base Indenture, the Company shall make an offer (the "**Change of Control Offer**") to each holder of the Notes to repurchase any and all of such holder's Notes at a repurchase price in cash equal to 101% of the aggregate principal amount of Notes to be repurchased (such principal amount to be equal to \$2,000 or an integral multiple of \$1,000 in excess of \$2,000), plus accrued and unpaid interest, if any, on the Notes to be repurchased up to, but excluding, the date of repurchase (the "**Change of Control Payment**"). Within 30 days following any Change of Control Triggering Event, the Company shall mail notice to the Trustee and Holders of the Notes describing the transaction or transactions that constitute the Change of Control Triggering Event and offering to repurchase the Notes on the date specified in the notice, which date will be no earlier than 30 days and no later than 60 days from

the date such notice is mailed (the “**Change of Control Payment Date**”). Notwithstanding the foregoing, installments of interest on such Notes whose Stated Maturity is on or prior to the Change of Control Payment Date shall be payable on the applicable Interest Payment Date to the Securityholders of such Notes registered as such at the close of business on the applicable record date pursuant to the Notes and the Indenture.

(b) On the Change of Control Payment Date, the Company shall, to the extent lawful:

(i) accept for payment all Notes or portions of Notes properly tendered pursuant to the Change of Control Offer;

(ii) deposit with the Trustee or a paying agent an amount equal to the Change of Control Payment in respect of all Notes or portions of Notes properly tendered; and

(iii) deliver or cause to be delivered to the Trustee the Notes properly accepted, together with an Officers’ Certificate stating (1) the aggregate principal amount of Notes or portions of Notes being repurchased, (2) that all conditions precedent contained herein to make a Change of Control Offer have been complied with and (3) that the Change of Control Offer has been made in compliance with the Indenture.

The Company shall publicly announce the results of the Change of Control Offer on or as soon as possible after the date of purchase.

(c) The Company shall comply in all material respects with the requirements of Rule 14e-1 under the Exchange Act and any other securities laws and regulations thereunder to the extent such laws and regulations are applicable in connection with the repurchase of the Notes as a result of a Change of Control Triggering Event. To the extent that the provisions of any such securities laws or regulations conflict with the Change of Control Offer provisions of this Section 1.4, the Company shall comply with the applicable securities laws and regulations and shall not be deemed to have breached its obligations under this Section 1.4 by virtue of any such conflict.

#### Section 1.5 Events of Default.

(a) With respect to the Notes, “**Event of Default**” means any one or more of the following events that has occurred and is continuing:

(1) default in the payment of the principal or any premium on any Note of that series when due (whether at maturity, upon acceleration, redemption or otherwise);

(2) default for 30 days in the payment of interest on any Note of such series when due;

(3) failure by the Company to comply with Section 1.4 of this Third Supplemental Indenture;

(4) failure by the Company to observe or perform any term of the Indenture (other than those referred to in (1), (2) or (3) above and other than a covenant or agreement included in this Third Supplemental Indenture not for the benefit of such series) for a period of 90 days after the Company receives a notice of default stating that the Company is in breach. The notice must be sent by either the Trustee or Holders of 25% of the principal amount of the Notes of the affected series;

(5) the entry by a court having competent jurisdiction of:

(A) an order for relief in respect of the Company as debtor in an involuntary proceeding under any applicable Bankruptcy Law and such order shall remain unstayed and in effect for a period of 60 consecutive days; or

(B) a final and non-appealable order appointing a Custodian of the Company, or ordering the winding up or liquidation of the affairs of the Company, and such order shall remain unstayed and in effect for a period of 60 consecutive days; or

(6) the commencement by the Company of a voluntary proceeding under any applicable Bankruptcy Law or the consent by the Company as debtor to the entry of a decree or order for relief in an involuntary proceeding under any applicable Bankruptcy Law, or the filing by the Company as debtor of a consent to an order for relief in any involuntary proceeding under any Bankruptcy Law, or to the appointment of a Custodian or the making by the Company of an assignment for the benefit of creditors.

ARTICLE II

MISCELLANEOUS

Section 2.1 Definitions.

Capitalized terms used but not defined in this Third Supplemental Indenture shall have the meanings ascribed thereto in the Base Indenture.

Section 2.2 Confirmation of Indenture.

The Base Indenture, as supplemented and amended by this Third Supplemental Indenture, is in all respects ratified and confirmed, and the Base Indenture, this Third Supplemental Indenture and all indentures supplemental thereto shall be read, taken and construed as one and the same instrument.

Section 2.3 Concerning the Trustee.

In carrying out the Trustee's responsibilities hereunder, the Trustee shall have all of the rights, protections and immunities which it possesses under the Indenture. The recitals contained herein and in the Notes, except the Trustee's certificate of authentication, shall be taken as the statements of the Company, and the Trustee assumes no responsibility for their correctness. The Trustee makes no representations as to the validity or sufficiency of this Third Supplemental Indenture or of the Notes. The Trustee shall not be accountable for the use or application by the Company of the Notes or the proceeds thereof.

Section 2.4 Governing Law.

This Third Supplemental Indenture and the Notes shall be deemed to be a contract made under the internal laws of the State of New York, and for all purposes shall be construed in accordance with the laws of said State.

Section 2.5 Separability.

In case any provision in this Third Supplemental Indenture shall for any reason be held to be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby.

Section 2.6 Counterparts.

This Third Supplemental Indenture may be executed in any number of counterparts each of which shall be an original, but such counterparts shall together constitute but one and the same instrument.

Section 2.7 No Benefit.

Nothing in this Third Supplemental Indenture, express or implied, shall give to any Person other than the parties hereto and their successors or assigns, and the holders of the Notes, any benefit or legal or equitable rights, remedy or claim under this Third Supplemental Indenture or the Base Indenture.

IN WITNESS WHEREOF, the parties hereto have caused this Third Supplemental Indenture to be duly executed all as of the day and year first above written.

**APPLIED MATERIALS, INC.**

By: /s/ Robert M. Friess

Name: Robert M. Friess

Title: Vice President and Treasurer

**U.S. BANK NATIONAL ASSOCIATION,  
as Trustee**

By: /s/ David A. Jason

Name: David A. Jason

Title: Vice President

**EXHIBIT A**

**FORM OF 3.300% SENIOR NOTES DUE 2027**

*[Insert the Global Security legend, if applicable]*

**3.300% SENIOR NOTES DUE 2027**

No. [ ]  
CUSIP No. 038222 AL9

\$( [ ] )

**APPLIED MATERIALS, INC.**

promises to pay to [ ] or registered assigns, the principal sum of [ ] Dollars (as may be adjusted by the increased or decreased as reflected on the Schedule of Increases or Decreases in the Global Security attached hereto) on April 1, 2027.

Interest Payment Dates: April 1 and October 1

Record Dates: March 15 and September 15

Each holder of this Security (as defined below), by accepting the same, agrees to and shall be bound by the provisions hereof and of the Indenture described herein, and authorizes and directs the Trustee described herein on such holder's behalf to be bound by such provisions. Each holder of this Security hereby waives all notice of the acceptance of the provisions contained herein and in the Indenture and waives reliance by such holder upon said provisions.

This Security shall not be entitled to any benefit under the Indenture, or be valid or become obligatory for any purpose, until the Certificate of Authentication hereon shall have been signed by or on behalf of the Trustee. The provisions of this Security are continued on the reverse side hereof, and such continued provisions shall for all purposes have the same effect as though fully set forth at this place.

IN WITNESS WHEREOF, the Company has caused this instrument to be signed in accordance with Section 2.04 of the Base Indenture.

Date:

APPLIED MATERIALS, INC.

\_\_\_\_\_  
Name:  
Title:

\_\_\_\_\_  
Name:  
Title:



**CERTIFICATE OF AUTHENTICATION**

This is one of the 3.300% Senior Notes due 2027 issued by Applied Materials, Inc. of the series designated therein referred to in the within-mentioned Indenture.

Date:

U.S. BANK NATIONAL ASSOCIATION,  
as Trustee

By: \_\_\_\_\_  
Authorized Signatory

**3.300% Senior Notes due 2027**

This security is one of a duly authorized series of debt securities of Applied Materials, Inc., a Delaware corporation (the “Company”), issued or to be issued in one or more series under and pursuant to an Indenture for the Company’s unsubordinated debt securities, dated as of June 8, 2011 (the “Base Indenture”), duly executed and delivered by and among the Company and U.S. Bank National Association (the “Trustee”), as supplemented by the Third Supplemental Indenture, dated as of March 31, 2017 (the “Third Supplemental Indenture”), by and between the Company and the Trustee. The Base Indenture as supplemented and amended by the Third Supplemental Indenture is referred to herein as the “Indenture.” By the terms of the Base Indenture, the debt securities issuable thereunder are issuable in series that may vary as to amount, date of maturity, rate of interest and in other respects as provided in the Base Indenture. This security is one of the series designated on the face hereof (individually, a “Security,” and collectively, the “Securities”), and reference is hereby made to the Indenture for a description of the rights, limitations of rights, obligations, duties and immunities of the Trustee, the Company and the holders of the Securities (the “Securityholders”). Capitalized terms used herein and not otherwise defined shall have the meanings given them in the Base Indenture or the Third Supplemental Indenture, as applicable.

1. **Interest.** The Company promises to pay interest on the principal amount of this Security at an annual rate of 3.300%. The Company will pay interest semi-annually on April 1 and October 1 of each year (each such day, an “Interest Payment Date”). If any Interest Payment Date, redemption date or maturity date of this Security is not a Business Day, then payment of interest or principal (and premium, if any) shall be made on the next succeeding Business Day with the same force and effect as if made on the date such payment was due, and no interest shall accrue for the period after such date to the date of such payment on the next succeeding Business Day. Interest on the Securities will accrue from the most recent date to which interest has been paid or duly provided for or, if no interest has been paid, from the date of issuance; provided that, if there is no existing Default in the payment of interest, and if this Security is authenticated between a regular record date referred to on the face hereof and the next succeeding Interest Payment Date, interest shall accrue from such next succeeding Interest Payment Date; and provided, further, that the first Interest Payment Date shall be October 1, 2017. Interest will be calculated on the basis of a 360-day year of twelve 30-day months.

2. **Method of Payment.** The Company will pay interest on the Securities (except defaulted interest), if any, to the persons in whose name such Securities are registered at the close of business on the regular record date referred to on the facing page of this Security for such interest installment. In the event that the Securities or a portion thereof are called for redemption or there is a Change of Control Offer, and the Optional Redemption Date or the Change of Control Payment Date, as applicable, is subsequent to a regular record date with respect to any Interest Payment Date and prior to such Interest Payment Date, interest on such Securities will instead be paid upon presentation and surrender of such Securities as provided in the Indenture.

The principal of and the interest on the Securities 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 Company maintained for that purpose in accordance with the Indenture.

3. **Paying Agent and Registrar.** Initially, U.S. Bank National Association, the Trustee, will act as paying agent and Security Registrar. The Company may change or appoint any paying agent or Security Registrar without notice to any Securityholder. The Company or any of their Subsidiaries may act in any such capacity.

4. **Indenture.** The terms of the Securities include those stated in the Indenture and those made part of the Indenture by reference to the Trust Indenture Act of 1939 (“TIA”) as in effect on the date the Indenture is qualified. The Securities are subject to all such terms, and Securityholders are referred to the Indenture and TIA for a statement of such terms. The Securities are unsecured general obligations of the Company and constitute the series designated on the face hereof as the “3.300% Senior Notes due 2027”, initially limited to \$1,200,000,000 in aggregate principal amount. The Company will furnish to any Securityholder

upon written request and without charge a copy of the Base Indenture and the Third Supplemental Indenture. Requests may be made to: Applied Materials, Inc., 3050 Bowers Avenue, P.O. Box 58039, Santa Clara, California 95052-8039, Attention: Treasurer.

5. Redemption. The Securities may be redeemed at the option of the Company prior to the maturity date, as provided in Section 1.3 of the Third Supplemental Indenture.

The Company shall not be required to make sinking fund payments with respect to the Securities.

6. Change of Control Triggering Event. Upon the occurrence of a Change of Control Triggering Event, unless the Company has exercised its right to redeem this Security in full or the Company has defeased this Security or satisfied and discharged this Security, the holder of this Security will have the right to require that the Company purchase all or a portion, (such principal amount to be equal to \$2,000 or any integral multiple of \$1,000 in excess of \$2,000), of this Security at a purchase price equal to 101% of the principal amount repurchased plus accrued and unpaid interest, if any, on the amount to be repurchased to the date of purchase. Within 30 days following any Change of Control Triggering Event, the Company shall send, by first class mail, a notice to each Holder, in accordance with Section 1.4(1)(a) of the Third Supplemental Indenture, with a copy to the Trustee, which notice shall govern the terms of the Change of Control Offer.

7. Denominations, Transfer, Exchange. The Securities are in registered form without coupons in the denominations of \$2,000 or any integral multiple of \$1,000 in excess thereof. The transfer of Securities may be registered and Securities may be exchanged as provided in the Indenture. The Securities may be presented for exchange or for registration of transfer (duly endorsed or with the form of transfer endorsed thereon duly executed if so required by the Company or the Security Registrar) at the office of the Security Registrar or at the office of any transfer agent designated by the Company for such purpose. No service charge will be made for any registration of transfer or exchange, but a Securityholder may be required to pay any applicable taxes or other governmental charges. If the Securities are to be redeemed, the Company will not be required to: (i) issue, register the transfer of, or exchange any Security during a period beginning at the opening of business 15 days before the day of mailing of a notice of redemption of less than all of the outstanding Securities of the same series and ending at the close of business on the day of such mailing; (ii) register the transfer of or exchange any Security of any series or portions thereof selected for redemption, in whole or in part, except the unredeemed portion of any such Security being redeemed in part; nor (iii) register the transfer of or exchange of a Security of any series between the applicable record date and the next succeeding Interest Payment Date.

8. Persons Deemed Owners. The registered Securityholder may be treated as its owner for all purposes.

9. Repayment to the Company. Any funds or Governmental Obligations deposited with any paying agent or the Trustee, or then held by the Company, in trust for payment of principal of, premium, if any, or interest on the Securities of a particular series that are not applied but remain unclaimed by the holders of such Securities for at least one year after the date upon which the principal of, premium, if any, or interest on such Securities shall have respectively become due and payable, shall, upon request of the Company, be repaid to the Company, or (if then held by the Company) shall be discharged from such trust. After return to the Company, Holders entitled to the money or securities must look to the Company, as applicable, for payment as unsecured general creditors.

10. Amendments, Supplements and Waivers. The Indenture permits, with certain exceptions as therein provided, the amendment thereof and the modification of the rights and obligations of the Company and the rights of the Holders of the Securities of each series to be affected under the Indenture at any time by the Company and the Trustee with the consent of the Holders of a majority in principal amount of the Securities at the time Outstanding of each series to be affected. The Indenture also contains provisions permitting the Holders of a majority in principal amount of the Securities of each series at the time Outstanding, on behalf of the Holders of all Securities of such series, to waive compliance by the Company with certain provisions of the Indenture and certain past defaults under the Indenture and their consequences. Any such consent or waiver by the Holder of this Security shall be conclusive and binding

upon such Holder and upon all future Holders of this Security and of any Security issued upon the registration of transfer hereof or in exchange hereof or in lieu hereof, whether or not notation of such consent or waiver is made upon this Security.

11. Defaults and Remedies. If an Event of Default with respect to the securities of a series issued pursuant to the Third Supplemental Indenture occurs and is continuing, the Trustee or the holders of at least 25% in aggregate principal amount of the Securities of such series then Outstanding, by notice in writing to the Company (and to the Trustee if notice is given by such holders), may declare the unpaid principal of, premium, if any, and accrued interest, if any, due and payable immediately. Subject to the terms of the Indenture, if an Event of Default under the Indenture shall occur and be continuing, the Trustee will be under no obligation to exercise any of its rights or powers under the Indenture at the request or direction of any of the holders, unless such holders have offered the Trustee indemnity satisfactory to it. Upon satisfaction of certain conditions set forth in the Indenture, the holders of a majority in principal amount of the Outstanding securities of a series issued pursuant to the Third Supplemental Indenture will have the right to direct the time, method and place of conducting any proceeding for any remedy available to the Trustee, or exercising any trust or power conferred on the Trustee, with respect to the securities of such series.

12. Trustee, Paying Agent and Security Registrar May Hold Securities. The Trustee, subject to certain limitations imposed by the TIA, or any paying agent or Security Registrar, 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 Trustee, paying agent or Security Registrar.

13. No Recourse Against Others. No recourse under or upon any obligation, covenant or agreement of the Indenture, or of any Security, or for any claim based thereon or otherwise in respect hereof or thereof, shall be had against any incorporator, stockholder, officer or director, past, present or future as such, of the Company or of any predecessor or successor corporation, either directly or through the Company or any such predecessor or successor corporation, whether by virtue of any constitution, statute or rule of law, or by the enforcement of any assessment or penalty or otherwise; it being expressly understood that the Indenture and the obligations issued hereunder and thereunder are solely corporate obligations, and that no such personal liability whatever shall attach to, or is or shall be incurred by, the incorporators, stockholders, officers or directors as such, of the Company or of any predecessor or successor corporation, or any of them, because of the creation of the indebtedness authorized by the Indenture, or under or by reason of the obligations, covenants or agreements contained in the Indenture or in the Securities or implied therefrom; and that any and all such personal liability of every name and nature, either at common law or in equity or by constitution or statute, of, and any and all such rights and claims against, every such incorporator, stockholder, officer or director as such, because of the creation of the indebtedness authorized by the Indenture, or under or by reason of the obligations, covenants or agreements contained in the Indenture or in the Securities or implied therefrom, are hereby expressly waived and released as a condition of, and as a consideration for, the acceptance of the Securities.

14. Discharge of Indenture. The Indenture contains certain provisions pertaining to discharge and defeasance, which provisions shall for all purposes have the same effect as if set forth herein.

15. Authentication. This Security shall not be valid until the Trustee manually signs the certificate of authentication attached to the other side of this Security.

16. Abbreviations. Customary abbreviations may be used in the name of a Securityholder or an assignee, such as: TEN COM (= tenants in common), TEN ENT (= tenants by the entireties), JT TEN (= joint tenants with right of survivorship and not as tenants in common), CUST (= Custodian), and U/G/M/A (= Uniform Gifts to Minors Act).

17. Governing Law. The Base Indenture, the Third Supplemental Indenture and this Security shall be deemed to be a contract made under the internal laws of the State of New York, and for all purposes shall be construed in accordance with the laws of said State.

**ASSIGNMENT FORM**

To assign this Security, fill in the form below: (I) or (we) assign and transfer this Security to

(Insert assignee's soc. sec. or tax I.D. no.)

(Print or type assignee's name, address and zip code)

and irrevocably appoint \_\_\_\_\_ agent to transfer this Security on the books of the Company. The agent may substitute another to act for him.

Date: \_\_\_\_\_

Your Signature:

\_\_\_\_\_  
(Sign exactly as your name appears on the face of this Security)

Signature Guarantee: \_\_\_\_\_

**OPTION OF HOLDER TO ELECT PURCHASE**

If you want to elect to have this Security purchased by the Company pursuant to Section 1.4(1) of the Third Supplemental Indenture, check the box:

1.4(1) Change of Control Triggering Event

If you want to elect to have only part of this Security purchased by the Company pursuant to Section 1.4(1) of the Third Supplemental Indenture, state the amount: \$ \_\_\_\_\_.

Date: \_\_\_\_\_

Your Signature:  
(Sign exactly as your name appears on the other side of the Security)

Tax I.D. number

Signature Guarantee: \_\_\_\_\_  
(Signature must be guaranteed by a participant in a recognized signature guarantee medallion program)

SCHEDULE OF INCREASES OR DECREASES IN GLOBAL SECURITY

The following increases or decreases in this Global Security have been made:

Date of Exchange	Amount of decrease in principal amount of this Global Security	Amount of increase in principal amount of this Global Security	Principal amount of this Global Security following such decrease or increase	Signature of authorized signatory of Trustee or Securities Custodian

**EXHIBIT B**

**FORM OF 4.350% SENIOR NOTES DUE 2047**

*[Insert the Global Security legend, if applicable]*

**4.350% SENIOR NOTES DUE 2047**

No. [ ]  
CUSIP No. 038222 AM7

\$( )

**APPLIED MATERIALS, INC.**

promises to pay to [ ] or registered assigns, the principal sum of [ ] Dollars (as may be adjusted by the increased or decreased as reflected on the Schedule of Increases or Decreases in the Global Security attached hereto) on April 1, 2047.

Interest Payment Dates: April 1 and October 1

Record Dates: March 15 and September 15

Each holder of this Security (as defined below), by accepting the same, agrees to and shall be bound by the provisions hereof and of the Indenture described herein, and authorizes and directs the Trustee described herein on such holder's behalf to be bound by such provisions. Each holder of this Security hereby waives all notice of the acceptance of the provisions contained herein and in the Indenture and waives reliance by such holder upon said provisions.

This Security shall not be entitled to any benefit under the Indenture, or be valid or become obligatory for any purpose, until the Certificate of Authentication hereon shall have been signed by or on behalf of the Trustee. The provisions of this Security are continued on the reverse side hereof, and such continued provisions shall for all purposes have the same effect as though fully set forth at this place.



IN WITNESS WHEREOF, the Company has caused this instrument to be signed in accordance with Section 2.04 of the Base Indenture.

Date:

APPLIED MATERIALS, INC.

---

Name:  
Title:

---

Name:  
Title:

**CERTIFICATE OF AUTHENTICATION**

This is one of the 4.350% Senior Notes due 2047 issued by Applied Materials, Inc. of the series designated therein referred to in the within-mentioned Indenture.

Date:

U.S. BANK NATIONAL ASSOCIATION,  
as Trustee

By: \_\_\_\_\_  
Authorized Signatory

4.350% Senior Notes due 2047

This security is one of a duly authorized series of debt securities of Applied Materials, Inc., a Delaware corporation (the “Company”), issued or to be issued in one or more series under and pursuant to an Indenture for the Company’s unsubordinated debt securities, dated as of June 8, 2011 (the “Base Indenture”), duly executed and delivered by and among the Company and U.S. Bank National Association (the “Trustee”), as supplemented by the Third Supplemental Indenture, dated as of March 31, 2017 (the “Third Supplemental Indenture”), by and between the Company and the Trustee. The Base Indenture as supplemented and amended by the Third Supplemental Indenture is referred to herein as the “Indenture.” By the terms of the Base Indenture, the debt securities issuable thereunder are issuable in series that may vary as to amount, date of maturity, rate of interest and in other respects as provided in the Base Indenture. This security is one of the series designated on the face hereof (individually, a “Security,” and collectively, the “Securities”), and reference is hereby made to the Indenture for a description of the rights, limitations of rights, obligations, duties and immunities of the Trustee, the Company and the holders of the Securities (the “Securityholders”). Capitalized terms used herein and not otherwise defined shall have the meanings given them in the Base Indenture or the Third Supplemental Indenture, as applicable.

1. Interest. The Company promises to pay interest on the principal amount of this Security at an annual rate of 4.350%. The Company will pay interest semi-annually on April 1 and October 1 of each year (each such day, an “Interest Payment Date”). If any Interest Payment Date, redemption date or maturity date of this Security is not a Business Day, then payment of interest or principal (and premium, if any) shall be made on the next succeeding Business Day with the same force and effect as if made on the date such payment was due, and no interest shall accrue for the period after such date to the date of such payment on the next succeeding Business Day. Interest on the Securities will accrue from the most recent date to which interest has been paid or duly provided for or, if no interest has been paid, from the date of issuance; provided that, if there is no existing Default in the payment of interest, and if this Security is authenticated between a regular record date referred to on the face hereof and the next succeeding Interest Payment Date, interest shall accrue from such next succeeding Interest Payment Date; and provided, further, that the first Interest Payment Date shall be October 1, 2017. Interest will be calculated on the basis of a 360-day year of twelve 30-day months.

2. Method of Payment. The Company will pay interest on the Securities (except defaulted interest), if any, to the persons in whose name such Securities are registered at the close of business on the regular record date referred to on the facing page of this Security for such interest installment. In the event that the Securities or a portion thereof are called for redemption or there is a Change of Control Offer, and the Optional Redemption Date or the Change of Control Payment Date, as applicable, is subsequent to a regular record date with respect to any Interest Payment Date and prior to such Interest Payment Date, interest on such Securities will instead be paid upon presentation and surrender of such Securities as provided in the Indenture.

The principal of and the interest on the Securities 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 Company maintained for that purpose in accordance with the Indenture.

3. Paying Agent and Registrar. Initially, U.S. Bank National Association, the Trustee, will act as paying agent and Security Registrar. The Company may change or appoint any paying agent or Security Registrar without notice to any Securityholder. The Company or any of their Subsidiaries may act in any such capacity.

4. Indenture. The terms of the Securities include those stated in the Indenture and those made part of the Indenture by reference to the Trust Indenture Act of 1939 (“TIA”) as in effect on the date the Indenture is qualified. The Securities are subject to all such terms, and Securityholders are referred to the Indenture and TIA for a statement of such terms. The Securities are unsecured general obligations of the Company and constitute the series designated on the face hereof as the “4.350% Senior Notes due 2047”, initially limited to \$1,000,000,000 in aggregate principal amount. The Company will furnish to any Securityholder

upon written request and without charge a copy of the Base Indenture and the Third Supplemental Indenture. Requests may be made to: Applied Materials, Inc., 3050 Bowers Avenue, P.O. Box 58039, Santa Clara, California 95052-8039, Attention: Treasurer.

5. Redemption. The Securities may be redeemed at the option of the Company prior to the maturity date, as provided in Section 1.3 of the Third Supplemental Indenture.

The Company shall not be required to make sinking fund payments with respect to the Securities.

6. Change of Control Triggering Event. Upon the occurrence of a Change of Control Triggering Event, unless the Company has exercised its right to redeem this Security in full or the Company has defeased this Security or satisfied and discharged this Security, the holder of this Security will have the right to require that the Company purchase all or a portion, (such principal amount to be equal to \$2,000 or any integral multiple of \$1,000 in excess of \$2,000), of this Security at a purchase price equal to 101% of the principal amount repurchased plus accrued and unpaid interest, if any, on the amount to be repurchased to the date of purchase. Within 30 days following any Change of Control Triggering Event, the Company shall send, by first class mail, a notice to each Holder, in accordance with Section 1.4(1)(a) of the Third Supplemental Indenture, with a copy to the Trustee, which notice shall govern the terms of the Change of Control Offer.

7. Denominations, Transfer, Exchange. The Securities are in registered form without coupons in the denominations of \$2,000 or any integral multiple of \$1,000 in excess thereof. The transfer of Securities may be registered and Securities may be exchanged as provided in the Indenture. The Securities may be presented for exchange or for registration of transfer (duly endorsed or with the form of transfer endorsed thereon duly executed if so required by the Company or the Security Registrar) at the office of the Security Registrar or at the office of any transfer agent designated by the Company for such purpose. No service charge will be made for any registration of transfer or exchange, but a Securityholder may be required to pay any applicable taxes or other governmental charges. If the Securities are to be redeemed, the Company will not be required to: (i) issue, register the transfer of, or exchange any Security during a period beginning at the opening of business 15 days before the day of mailing of a notice of redemption of less than all of the outstanding Securities of the same series and ending at the close of business on the day of such mailing; (ii) register the transfer of or exchange any Security of any series or portions thereof selected for redemption, in whole or in part, except the unredeemed portion of any such Security being redeemed in part; nor (iii) register the transfer of or exchange of a Security of any series between the applicable record date and the next succeeding Interest Payment Date.

8. Persons Deemed Owners. The registered Securityholder may be treated as its owner for all purposes.

9. Repayment to the Company. Any funds or Governmental Obligations deposited with any paying agent or the Trustee, or then held by the Company, in trust for payment of principal of, premium, if any, or interest on the Securities of a particular series that are not applied but remain unclaimed by the holders of such Securities for at least one year after the date upon which the principal of, premium, if any, or interest on such Securities shall have respectively become due and payable, shall, upon request of the Company, be repaid to the Company, or (if then held by the Company) shall be discharged from such trust. After return to the Company, Holders entitled to the money or securities must look to the Company, as applicable, for payment as unsecured general creditors.

10. Amendments, Supplements and Waivers. The Indenture permits, with certain exceptions as therein provided, the amendment thereof and the modification of the rights and obligations of the Company and the rights of the Holders of the Securities of each series to be affected under the Indenture at any time by the Company and the Trustee with the consent of the Holders of a majority in principal amount of the Securities at the time Outstanding of each series to be affected. The Indenture also contains provisions permitting the Holders of a majority in principal amount of the Securities of each series at the time Outstanding, on behalf of the Holders of all Securities of such series, to waive compliance by the Company with certain provisions of the Indenture and certain past defaults under the Indenture and their consequences. Any such consent or waiver by the Holder of this Security shall be conclusive and binding

upon such Holder and upon all future Holders of this Security and of any Security issued upon the registration of transfer hereof or in exchange herefor or in lieu hereof, whether or not notation of such consent or waiver is made upon this Security.

11. Defaults and Remedies. If an Event of Default with respect to the securities of a series issued pursuant to the Third Supplemental Indenture occurs and is continuing, the Trustee or the holders of at least 25% in aggregate principal amount of the Securities of such series then Outstanding, by notice in writing to the Company (and to the Trustee if notice is given by such holders), may declare the unpaid principal of, premium, if any, and accrued interest, if any, due and payable immediately. Subject to the terms of the Indenture, if an Event of Default under the Indenture shall occur and be continuing, the Trustee will be under no obligation to exercise any of its rights or powers under the Indenture at the request or direction of any of the holders, unless such holders have offered the Trustee indemnity satisfactory to it. Upon satisfaction of certain conditions set forth in the Indenture, the holders of a majority in principal amount of the Outstanding securities of a series issued pursuant to the Third Supplemental Indenture will have the right to direct the time, method and place of conducting any proceeding for any remedy available to the Trustee, or exercising any trust or power conferred on the Trustee, with respect to the securities of such series.

12. Trustee, Paying Agent and Security Registrar May Hold Securities. The Trustee, subject to certain limitations imposed by the TIA, or any paying agent or Security Registrar, 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 Trustee, paying agent or Security Registrar.

13. No Recourse Against Others. No recourse under or upon any obligation, covenant or agreement of the Indenture, or of any Security, or for any claim based thereon or otherwise in respect hereof or thereof, shall be had against any incorporator, stockholder, officer or director, past, present or future as such, of the Company or of any predecessor or successor corporation, either directly or through the Company or any such predecessor or successor corporation, whether by virtue of any constitution, statute or rule of law, or by the enforcement of any assessment or penalty or otherwise; it being expressly understood that the Indenture and the obligations issued hereunder and thereunder are solely corporate obligations, and that no such personal liability whatever shall attach to, or is or shall be incurred by, the incorporators, stockholders, officers or directors as such, of the Company or of any predecessor or successor corporation, or any of them, because of the creation of the indebtedness authorized by the Indenture, or under or by reason of the obligations, covenants or agreements contained in the Indenture or in the Securities or implied therefrom; and that any and all such personal liability of every name and nature, either at common law or in equity or by constitution or statute, of, and any and all such rights and claims against, every such incorporator, stockholder, officer or director as such, because of the creation of the indebtedness authorized by the Indenture, or under or by reason of the obligations, covenants or agreements contained in the Indenture or in the Securities or implied therefrom, are hereby expressly waived and released as a condition of, and as a consideration for, the acceptance of the Securities.

14. Discharge of Indenture. The Indenture contains certain provisions pertaining to discharge and defeasance, which provisions shall for all purposes have the same effect as if set forth herein.

15. Authentication. This Security shall not be valid until the Trustee manually signs the certificate of authentication attached to the other side of this Security.

16. Abbreviations. Customary abbreviations may be used in the name of a Securityholder or an assignee, such as: TEN COM (= tenants in common), TEN ENT (= tenants by the entireties), JT TEN (= joint tenants with right of survivorship and not as tenants in common), CUST (= Custodian), and U/G/M/A (= Uniform Gifts to Minors Act).

17. Governing Law. The Base Indenture, the Third Supplemental Indenture and this Security shall be deemed to be a contract made under the internal laws of the State of New York, and for all purposes shall be construed in accordance with the laws of said State.

**ASSIGNMENT FORM**

To assign this Security, fill in the form below: (I) or (we) assign and transfer this Security to

(Insert assignee's soc. sec. or tax I.D. no.)

(Print or type assignee's name, address and zip code)

and irrevocably appoint \_\_\_\_\_ agent to transfer this Security on the books of the Company. The agent may substitute another to act for him.

Date: \_\_\_\_\_

Your Signature:

\_\_\_\_\_  
(Sign exactly as your name appears on the face of this Security)

Signature Guarantee: \_\_\_\_\_

**OPTION OF HOLDER TO ELECT PURCHASE**

If you want to elect to have this Security purchased by the Company pursuant to Section 1.4(1) of the Third Supplemental Indenture, check the box:

1.4(1) Change of Control Triggering Event

If you want to elect to have only part of this Security purchased by the Company pursuant to Section 1.4(1) of the Third Supplemental Indenture, state the amount: \$ \_\_\_\_\_.

Date: \_\_\_\_\_

Your Signature:  
(Sign exactly as your name appears on the other side of the Security)

Tax I.D. number

Signature Guarantee: \_\_\_\_\_  
(Signature must be guaranteed by a participant in a recognized signature guarantee medallion program)

SCHEDULE OF INCREASES OR DECREASES IN GLOBAL SECURITY

The following increases or decreases in this Global Security have been made:

Date of Exchange	Amount of decrease in principal amount of this Global Security	Amount of increase in principal amount of this Global Security	Principal amount of this Global Security following such decrease or increase	Signature of authorized signatory of Trustee or Securities Custodian



# CLEARY GOTTlieb STEEN & HAMILTON LLP

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VICTOR I. LEWKOW	ETHAN A. KLINGSBERG	ARI D. MACKINNON
LESLIE N. SILVERMAN	MICHAEL D. DAYAN	JAMES E. LANGSTON
LEE C. BUCHHEIT	CARMINE D. BOCCUZZI, JR.	JARED GERBER
JAMES M. PEASLEE	JEFFREY D. KARFF	COLIN D. LLOYD
THOMAS J. MOLONEY	KIMBERLY BROWN BLACKLOW	COREY M. GOODMAN
DAVID G. SABEL	ROBERT J. RAYMOND	RISHI ZUTSHI
JONATHAN I. BLACKMAN	SUNG K. KANG	JANE VANLARE
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March 31, 2017

Applied Materials, Inc.  
3050 Bowers Avenue, P.O. Box 58039  
Santa Clara, California 95052-8039

Ladies and Gentlemen:

We have acted as special counsel to Applied Materials, Inc., a Delaware corporation (the “Company”), in connection with the Company’s offering pursuant to a registration statement on Form S-3 (No. 333-205584), as amended as of its most recent effective date (March 28, 2017), insofar as it relates to the Notes (as determined for purposes of Rule 430B(f)(2) under the Securities Act of 1933, as amended (the “Securities Act”)) (as so amended, but excluding the documents incorporated by reference therein, the “Registration Statement”) and the prospectus, dated July 9, 2015, as supplemented by the prospectus supplement thereto, dated March 28, 2017 (together, the “Prospectus”), of \$1,200,000,000 principal amount of its 3.300% Senior Notes due 2027 (the “2027 Notes”) and \$1,000,000,000 principal amount of its 4.350% Senior Notes due 2047 (the “2047 Notes” and together with the 2027 Notes, the “Notes”). The Notes were issued under an indenture dated as of June 8, 2011 (the “Base Indenture”), between the Company and U.S. Bank National Association, as trustee (the “Trustee”), as supplemented with respect to the Notes by a third supplemental indenture dated as of March 31, 2017 (the “Third Supplemental Indenture” and together with the Base Indenture, the “Indenture”).

In arriving at the opinion expressed below, we have reviewed the following documents:

- (a) the Registration Statement and the documents incorporated by reference therein;
- (b) the Prospectus and the documents incorporated by reference therein;

Cleary Gottlieb Steen & Hamilton LLP or an affiliated entity has an office in each of the cities listed above.

- (c) an executed copy of the Underwriting Agreement, dated March 28, 2017, between the Company and the several underwriters named in Schedule 1 thereto;
- (d) executed copies of the Base Indenture and the Third Supplemental Indenture;
- (e) a copy of the Notes in global form as executed by the Company and authenticated by the Trustee; and
- (f) copies of the Company's Amended and Restated Certificate of Incorporation and Amended and Restated Bylaws certified by the Secretary of State of the State of Delaware and an assistant secretary of the Company, respectively.

In addition, we have reviewed the originals or copies certified or otherwise identified to our satisfaction of all such corporate records of the Company and such other documents, and we have made such investigations of law, as we have deemed appropriate as a basis for the opinion expressed below.

In rendering the opinion expressed below, we have assumed the authenticity of all documents submitted to us as originals and the conformity to the originals of all documents submitted to us as copies. In addition, we have assumed and have not verified the accuracy as to factual matters of each document we have reviewed.

Based on the foregoing, and subject to the further assumptions and qualifications set forth below, it is our opinion that the Notes have been validly issued by the Company and are the valid, binding and enforceable obligations of the Company, entitled to the benefits of the Indenture.

Insofar as the foregoing opinion relates to the validity, binding effect or enforceability of any agreement or obligation of the Company, (x) we have assumed that the Company and each other party to such agreement or obligation has satisfied those legal requirements that are applicable to it to the extent necessary to make such agreement or obligation enforceable against it (except that no such assumption is made as to the Company regarding matters of the law of the State of New York or the General Corporation Law of the State of Delaware that in our experience normally would be applicable to general business entities with respect to such agreement or obligation) and (y) such opinion is subject to applicable bankruptcy, insolvency and similar laws affecting creditors' rights generally and to general principles of equity.

The foregoing opinion is limited to the law of the State of New York and the General Corporation Law of the State of Delaware.

