FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| STATEMENT | ΩF | CHANGES | IN BENEE | ICIAI | OWNERSE | ИÞ |
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OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b)

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| 1. Name and Address of Reporting Person* KIFER RON (Last) (First) (Middle) C/O APPLIED MATERIALS, INC. P.O. BOX 58039, 3050 BOWERS AV, M/S 1268 | | | | | 3. [| Issuer Name and Ticker or Trading Symbol APPLIED MATERIALS INC /DE [AMAT] Date of Earliest Transaction (Month/Day/Year) 09/08/2011 | | | | | | | | | | ck all applic Directo | able) | | 10% Ow Other (s below) | ner | |
|---|---|----------------------|--|----------------|---|---|-----|--------|--|--------------------------------------|-----|---------------------|-----------------------------------|---|---------------------|---|--|-------------------------------------|--|--|--|
| (Street) | CLARA C | A tate) | 95054 (Zip) | | - | 4. If Amendment, Date of Original Filed (Month/Day/Year) | | | | | | | , , | | Line) | Form fi Form fi Person | | | | | |
| Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transa Date (Month/Date) | | | | saction | 2A. Deemed Execution Date, if any (Month/Day/Year) | | | , | 3. 4. Securiti Transaction Code (Instr. 5) | | | ies Acqui | ed (A) | or | or 5. Amount of | | Form (D) o | n: Direct r Indirect istr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) | | |
| | | | | | | | | | - (| Code V | , | Amount | (D) | | rice | Transact (Instr. 3 a | ion(s) and 4) | | | , | |
| | | | | 8/201 8/201 | | | + | M S | | 50,000 A 50,000 D | | _ | \$8.58 10.89 | 302,790 ⁽¹⁾ 252,790 ⁽¹⁾ | | | D D | - | | | |
| | | - | Table II - | | | | | | | | | sed of, onvertil | | | | Owned | | | | | |
| Security or Exerci (Instr. 3) Price of | Conversion or Exercise Price of Derivative | ise (Month/Day/Year) | 3A. Deeme Execution if any (Month/Day | Date, | | ransaction ode (Instr. | | | | Date Exer piration E onth/Day/ | ate | | of Secur Underlyi Derivativ | 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) | | 8. Price of Derivative Security (Instr. 5) | 9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4) | ly | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) | |
| | | | | | Code | v | (A) | (D) | Dat Exe | te ercisable | | expiration Date | Title | or | ount nber res | | | | | | |
| Employee Stock Option (Right to Buy) | \$8.58 | 09/08/2011 | | | М | | | 50,000 | | (2) | 0 | 3/09/2014 | Commor Stock | 50, | 000 | \$0 | 250,000 | 0 | D | | |

Explanation of Responses:

1. Number of shares includes 212,500 performance shares (restricted stock units) previously reported that in the future will be converted on a one-for-one basis into shares of Applied Materials, Inc. common stock upon vesting, which vesting is scheduled to occur as follows: (a) 37,500 shares are scheduled to vest in installments during each December of 2011 through 2014 (all vesting will be subject to continued employment through each vest date).

2. 150,000 shares became exercisable on 4/1/2011 and 150,000 shares are scheduled to become exercisable on 4/1/2012, subject to continued employment through the vest date.

/s/ Charmaine Mesina, 09/12/2011 Attorney-in-Fact

** Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- * If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.

POWER OF ATTORNEY

The undersigned hereby constitutes and appoints each of Charmaine Mesina and Mary Zeigler, signing singly, the undersigned's true and lawful attorney-in-fact to:

- (1) execute for and on behalf of the undersigned, in the undersigned's capacity as an officer of Applied Materials, Inc. (the "Company"), Forms 3, 4 and 5 in accordance with Section 16(a) of the Securities Exchange Act of 1934 and the rules thereunder;
- (2) do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such Form 3, 4 or 5, complete and execute any amendment(s) thereto, and timely file such form with the United States Securities and Exchange Commission and any stock exchange or similar authority; and
- (3) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in such attorney-in-fact's discretion.

The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary or proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney-in-fact, or such attorney-in-fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this power of attorney and the rights and powers herein granted. The undersigned acknowledges that the foregoing attorneys-in fact, in serving in such capacity at the request of the undersigned, are not assuming, nor is the Company assuming, any of the undersigned's responsibilities to comply with Section 16 of the Securities Exchange Act of 1934.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Forms 3, 4 and 5 with respect to the undersigned's holdings of and transactions in securities issued by the Company, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 15th day of June 2006.