| SEC Form 4 | |
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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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| | | | or Section 30(h) of the Investment Company Act of 1940 | | | |
|--|-------------------|----------------|--|-----------------------|---|---------------------------------|
| 1. Name and Address of Reporting Person [*] KIFER RON | | | 2. Issuer Name and Ticker or Trading Symbol <u>APPLIED MATERIALS INC /DE</u> [AMAT] | | ationship of Reporting Pe k all applicable) Director | erson(s) to Issuer 10% Owner |
| (Last) (First) (Middle) C/O APPLIED MATERIALS, INC. P.O. BOX 58039, 3050 BOWERS AV, M/S 2023 | | , INC. | 3. Date of Earliest Transaction (Month/Day/Year) 09/03/2009 | - x | Officer (give title below) Group VP & | Other (specify below) |
| (Street) SANTA CLA (City) | ARA CA (State) | 95054 (Zip) | 4. If Amendment, Date of Original Filed (Month/Day/Year) | 6. Indi Line) X | vidual or Joint/Group Fili Form filed by One Re Form filed by More th Person | porting Person |

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | | | 4. Securities / Disposed Of (5) | | | 5. Amount of Securities Beneficially Owned Following Reported | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--|---|------|---|--|---|---------|---|---|---|
| | | | Code | v | Amount (A) or Price | | | Transaction(s) (Instr. 3 and 4) | | (|
| Common Stock | 09/03/2009 | | S | | 44,235 | D | \$13.11 | 51,875 ⁽¹⁾ | D | |

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transa Code (8) | | 5. Nu of Deriv Secu Acqu (A) or Dispo of (D) (Instr and 5 | ative rities ired osed . 3, 4 | Expiration Date | | Expiration Date Amount of I Month/Day/Year) Securities S | | 8. Price of Derivative Security (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---|---|--|---|------------------------------|---|--|---|---------------------|--------------------|---|--|---|--|--|--|
| | | | | Code | v | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | | | | |

Explanation of Responses:

1. Number of shares consists of 51,875 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) 22,500 performance shares are scheduled to vest on 8/31/10; (b) 4,375 performance shares are scheduled to vest on 5/1/10; and (c) 25,000 performance shares are scheduled to vest in two equal annual installments beginning 8/31/10 (all vesting is subject to continued employment through each vesting date).

| <u>/s/ Charmaine Mesina,</u> | |
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| Attorney-in-Fact | |

** Signature of Reporting Person Date

09/04/2009

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.

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.

/s/ Ron Kifer Ron Kifer