KIFER RON Form 4 April 05, 2010

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL

OMB 3235-0287 Number:

January 31, Expires: 2005

Estimated average burden hours per

response... 0.5

5. Relationship of Reporting Person(s) to

Issuer

if no longer subject to Section 16. Form 4 or Form 5

Check this box

obligations may continue. See Instruction

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

2. Issuer Name and Ticker or Trading

Symbol

1(b).

KIFER RON

Stock

(Print or Type Responses)

1. Name and Address of Reporting Person *

APPLIED MATERIALS INC/DE (Check all applicable) [AMAT] 3. Date of Earliest Transaction (Last) (First) (Middle) Director 10% Owner X_ Officer (give title Other (specify (Month/Day/Year) below) C/O APPLIED MATERIALS. 04/01/2010 Group VP & CIO INC., P.O. BOX 58039, 3050 BOWERS AV, M/S 2023 (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting SANTA CLARA, CA 95054 (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed 3. 4. Securities Acquired (A) 5. Amount of 7. Nature of Transactionr Disposed of (D) Indirect Security (Month/Day/Year) Execution Date, if Securities Ownership (Instr. 3) Code (Instr. 3, 4 and 5) Beneficially Form: Beneficial (Month/Day/Year) (Instr. 8) Owned Direct (D) Ownership or Indirect **Following** (Instr. 4) Reported (A) Transaction(s) (Instr. 4) (Instr. 3 and 4) Code V Price Amount (D) Common 04/01/2010 \$ 8.58 327,499 (1) D M 150,000 Α Stock Common 04/01/2010 S 150,000 D 177,499 (1) D

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

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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. Transactic Code (Instr. 8)	5. Number of orDerivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount Number Shares
Employee Stock Option (right to buy)	\$ 8.58	04/01/2010		M		150,000	(2)	03/09/2014	Common Stock	150,00

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

KIFER RON C/O APPLIED MATERIALS, INC. P.O. BOX 58039, 3050 BOWERS AV, M/S 2023 SANTA CLARA, CA 95054

Group VP & CIO

Signatures

/s/ Charmaine Mesina,

Attorney-in-Fact 04/05/2010

**Signature of Reporting Person Date

Explanation of Responses:

- * 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).

Increased number of shares reflects periodic payroll acquisitions under Employees' Stock Purchase Plan that are exempt under Rule 16a-10 and Rule 16b-3. Number of shares includes 176,875 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

- (1) scheduled to occur as follows: (a) 22,500 shares are scheduled to vest on 8/31/10; (b) 4,375 shares are scheduled to vest on 5/1/10; (c) 25,000 shares are scheduled to vest in two equal annual installments beginning 8/31/10; and (d) provided specified performance goals are achieved, 125,000 shares are scheduled to vest no earlier than in four equal annual installments beginning 12/19/10 (all vesting is subject to continued employment through each vest date).
- (2) 150,000 shares became exercisable on 4/1/10 and 300,000 shares are scheduled to become exercisable in two equal annual installments beginning 4/1/11, subject to continued employment through each vest date.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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