FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
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Check this box if no longer subject to Section 16. Form 4 or Form 5	STATEMENT (
obligations may continue. See	
Instruction 1(b).	Filed purs

OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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

Name and Address of Reporting Person* KIFER RON				2. Issuer Name and Ticker or Trading Symbol APPLIED MATERIALS INC /DE [AMAT]								Check	tionship of Reportin all applicable) Director Officer (give title		g Person(s) to Issuer 10% Owner Other (specify				
	ast) (First) (Middle) /O APPLIED MATERIALS, INC. O. BOX 58039, 3050 BOWERS AV, M/S 2023				3. Date of Earliest Transaction (Month/Day/Year) 08/31/2008								X	belov					
(Street)	CLARA CA	A 9	5054 Zip)	4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)						Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person								
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned													_						
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da					Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired Disposed Of (D) (Instr. 8)				d 5)	Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	t of Indirec ct Beneficia Ownershi	of Indirect Beneficial Ownership			
								Code V Am		Amount	(A) or (D) Pric		Price		Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)	
Common	Stock		08/3	1/2008	2008			F		16,532 ⁽¹⁾		D	\$17	.92	92 158,172(2)		D		
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
1. Title of Derivative Conversion Date Security Or Exercise (Month/Day/Year) if any		Code (I. 5. Number of Oransaction Code (Instr. Derivative		ative rities ired sed	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		ount	Deriv	curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	of Indired Beneficia Ownersh ct (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
				Codo		_(A)		Date		Expiration	Title	of							

Explanation of Responses:

- 1. Represents shares that were automatically withheld upon vesting of performance shares (restricted stock units) to cover tax withholding obligations in a transaction exempt under Rule 16b-3.
- 2. 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 115,250 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 vesting is subject to continued employment).

/s/ Charmaine Mesina, Attorney-in-Fact

09/03/2008

** 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.