FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	S IN BENEFICIAL	. OWNERSHIP

l	OMB APPRO	VAL
	OMB Number:	3235-0287
l	Estimated average burde	en
l	hours per response:	0.5

	Check this box if no longer subject to
١	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

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1. Name and Address of Reporting Person* KIFER RON					2. Issuer Name and Ticker or Trading Symbol APPLIED MATERIALS INC /DE [AMAT]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)							
KIFER RUN				-										Direc			Owner				
				\vdash										X	Offic belov	er (give title	Othe belo	r (specify			
(Last)		(Firs	st) (I	Middle)			3. Date of Earliest Transaction (Month/Day/Year)									, , ,					
C/O APPLIED MATERIALS, INC.				08/	08/13/2009									Group VP & CIO							
P.O. BOX 58039, 3050 BOWERS AV, M/S 2023																					
				.,		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable					
(Street)										Ü		`	•	,		Line)					
SANTA	CIARA	СА	C	5054												X Form filed by One Reporting Person					
5/11/1/1	CLITTOI	C11		75054												Form filed by More than One Reporting					
																	Pers	on			
(City)		(Sta	te) (2	Zip)																	
			Tabl	e I - No	n-Deriv	ative	Se	curitie	s Acc	uired,	Dis	posed o	f, o	r Ben	efici	ally (Owne	ed			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da				Exec		Deemed ecution Date, ny onth/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)		(A) or . 3, 4 a	nd	5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Ownership				
									v	Amount		(A) or (D)	Price	;	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)			
Common	Stock				08/13/	/2009	2009			S		26,969	9	D	D \$13		3.68 110,875 ⁽¹⁾		D		
			Та									sed of, onvertib					vned			·	
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercing Price of Derivative Security	ion ise ve	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date,		ransaction Code (Instr.		of		6. Date Exercis Expiration Date (Month/Day/Yea		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)					9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownershi Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)	
						Code	V	(A)		Date Exercisa		Expiration	Titl	or Nu of	nount mber						

Explanation of Responses:

1. Number of shares consists of 110,875 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) 24,000 performance shares are scheduled to vest on 8/31/09; (b) 45,000 performance shares are scheduled to vest in two equal annual installments beginning 8/31/09; (c) 4,375 performance shares are scheduled to vest in three equal annual installments beginning 8/31/09 (all vesting is subject to continued employment).

/s/ Charmaine Mesina, Attorney-in-Fact 08/17/2009

** 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.