FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

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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

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1. Name and Address of Reporting Person* SPLINTER MICHAEL R						2. Issuer Name and Ticker or Trading Symbol APPLIED MATERIALS INC /DE [AMAT]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
SPLINTER WICHAEL K														X	X Director			10% (Owner	
(Last)	(Fir	rst) ((Middle)				Date of Earliest Transaction (Month/Day/Year)								belov	,		below	´	
C/O APPLIED MATERIALS, INC.					08/	08/31/2009									Cha	nairman, President and CE			EO	
P.O. BOX 58039, 3050 BOWERS AV, M/S 2023																				
(Street) SANTA CLARA CA 95054				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person						
(City) (State) (Zip)															Form filed by More than One Reporting Person					
(City)	(30	ate) (.	Zip)																	
		Tabl	e I - No	on-Deriv	ative	Sec	uritie	s Ac	quirec	l, Di	sposed o	f, or E	Benefi	cially	/ Owne	ed				
Date				Date	2. Transaction Date Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a 5)				Beneficially Owned Following		Forn (D) o	n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) (D)	Pric	e	Reporte Transac (Instr. 3	tion(s)			(Instr. 4)	
Common Stock 08/3				08/31/2	2009				F		4,469(1)	D	\$1	3.18	8 812,260(2)(3)			D		
Common Stock															300,000				Revocable Trust	
Common Stock															258	58.74 ⁽⁴⁾		I	By the 401(k) Plan	
	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	(Month/Day/Year) if any		on Date,	4. Transa Code (8)		of		6. Date Exerci Expiration Da (Month/Day/Y		ite	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		De Se (In	Price of rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title	Amoun or Numbe of Shares							

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 also includes (a) 75,000 shares of restricted stock previously reported that are scheduled to vest in two equal annual installments beginning 12/19/09; (b) 52,500 shares of restricted stock previously reported that are scheduled to vest in three equal annual installments beginning 12/19/09; (c) 30,000 shares of restricted stock previously reported that, provided specified performance goals are achieved, are scheduled to vest (continued in Footnote 3)
- 3. (i) as to 15,000 shares no earlier than on 12/19/09 and (ii) as to 15,000 shares no earlier than in two equal annual installments beginning 12/19/10; and (d) 463,750 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: 175,000 performance shares are scheduled to vest in two equal annual installments beginning 12/19/09; 183,750 performance shares are scheduled to vest in two equal annual installments beginning 12/19/09; and, provided specified performance goals are achieved, 105,000 performance shares are scheduled to vest (i) as to 52,500 shares no earlier than on 12/19/09 and (ii) as to 52,500 shares no earlier than in two equal annual installments beginning 12/19/10 (all vesting is subject to continued employment through each vesting date).
- 4. Increased number of shares reflects dividend reinvestment under the 401(k) Plan that is exempt under Rule 16b-3.

/s/ Charmaine Mesina, Attorney-in-Fact 09/02/2009

** 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 a director and 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 Company's Secretary.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 2nd day of May, 2003.

/s/ Michael R. Splinter
-----Michael R. Splinter