FORM 4

Instruction 1(b)

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

	CTATEMENT OF CHANGES IN DENIETIONAL CHANGES ON THE
Check this box if no longer subject to	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP
Section 16. Form 4 or Form 5	
obligations may continue. See	

OMB APPROVAL OMB Number: Estimated average burden

0.5

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

1. Name and Address of Reporting Person* <u>SPLINTER MICHAEL R</u>						2. Issuer Name and Ticker or Trading Symbol APPLIED MATERIALS INC /DE [AMAT]									5. Relationship of Report (Check all applicable) X Director			rson(s) to Is	
		rst) (ERIALS, INC. 50 BOWERS A	Middle)	2023		3. Date of Earliest Transaction (Month/Day/Year) 12/19/2009								X	belov	,	Other (specify below) esident and CEO)``
(Street) SANTA	CLARA CA)5054 Zip)		4. If	Amen	dment,	, Date o	of Origin	nal Filed (Month/Day/Year)					dividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tabl	e I - No	on-Deriv	ative	Sec	uritie	s Ac	quired	l, Dis	sposed o	f, or E	Benefi	cially	Owne	ed			
1. Title of Security (Instr. 3) 2. Transact Date (Month/Date)					Execution Date,			3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 a				5. Amount of Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) (D)	or Prio	e	Transa	action(s) 3 and 4)			(Instr. 4)
Common Stock 12/15				12/19/2	2009				F		89,015(1)) Г	\$1	3.62	723,	245(2)(3)	5(2)(3)		
Common	Stock														30	00,000 I Revocable Trust			
Common Stock														261.107(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	se (Month/Day/Year) if any (Month/Day/Year)		on Date, Day/Year)	4. Transa Code (8)			6. Date Exercisable and Expiration Date (Month/Day/Year) Date Exercisable Expiration Date			7. Title and Amount of Securities Underlying Derivative Security (Instr. : and 4) Amount or Number of Title Shares		De Se (In:	8. Price of Derivative Security (Instr. 5) Eneficic Owned Followir Reporte Transac (Instr. 4)		y i	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

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. Number of shares includes (a) 37,500 shares of restricted stock previously reported that are scheduled to vest on 12/19/10 (subject to continued employment); (b) 35,000 shares of restricted stock previously reported that are scheduled to vest in two equal annual installments beginning 12/19/10 (subject to continued employment); (c) 30,000 shares of restricted stock previously reported that, provided specified performance goals are achieved, are scheduled to vest (i) as to 22,500 shares no earlier than on 12/19/10 and (ii) as to 7,500 shares no earlier than on 12/19/11 (subject to continued employment); and (d) 315,000 performance shares (or 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: (Continued to footnote 3)
- 3. 87,500 performance shares are scheduled to vest on 12/19/10; 122,500 performance shares are scheduled to vest in two equal annual installments beginning 12/19/10; and, provided specified performance goals are achieved, 105,000 performance shares are scheduled to vest (i) as to 78,750 shares no earlier than on 12/19/10 and (ii) as to 26,250 shares no earlier than on 12/19/11 (all vesting is subject to continued employment).
- 4. Increased number of shares reflects dividend reinvestment and periodic allocation of accrued interest (which interest was automatically converted into shares) to all participants under the 401(k) Plan that are exempt under Rule 16b-3.

/s/ Charmaine Mesina, 12/22/2009 Attorney-in-Fact

** Signature of Reporting Person

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.