SPLINTER MICHAEL R

SANTA CLARA, CA 95054

Form 4

September 02, 2009

FORM 4	OMB APPROVAL								
	UNITED) STATES	SECURITIES AND EXCHANGE C Washington, D.C. 20549	COMMISSION	OMB Number:	3235-0287			
Check this box if no longer	STATE	MENT O	F CHANGES IN BENEFICIAL OW	NERSHIP OF	Expires:	January 31, 2005			
Section 16.	Section 16. SECURITIES								
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, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940 (Print or Type Responses)									
1. Name and Address SPLINTER MIC	•	g Person *	2. Issuer Name and Ticker or Trading Symbol APPLIED MATERIALS INC /DE [AMAT]	5. Relationship of I Issuer (Check	Reporting Person all applicable)	``			
(Last) (CO APPLIED MINC., P.O. BOX BOWERS AV, M	58039, 305		3. Date of Earliest Transaction (Month/Day/Year) 08/31/2009	_X_ Director _X_ Officer (give to below) Chairman,		Owner r (specify CEO			
2)	Street)		4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joi Applicable Line) _X_ Form filed by Or	, ,				

(City)	(State)	(Zip) Tab	le I - Non-	Derivative	Secu	rities Acq	quired, Disposed	of, or Beneficia	ally Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactic Code (Instr. 8)	4. Securi on(A) or D (Instr. 3,	ispose 4 and (A) or	ed of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock	08/31/2009		F	4,469 (1)	D	\$ 13.18	812,260 <u>(2)</u> <u>(3)</u>	D	
Common Stock							300,000	I	Revocable Trust
Common Stock							258.74 <u>(4)</u>	I	By the 401(k) Plan

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

Persons who respond to the collection of information contained in this form are not (9-02)

Form filed by More than One Reporting

Person

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required to respond unless the form displays a currently valid OMB control number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	f 2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exer	cisable and	7. Title	and	8. Price of	9. Nu
Derivativ	e Conversion	(Month/Day/Year)	Execution Date, if	Transacti	orNumber	Expiration D	ate	Amount	t of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Underly	ing	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securiti	es	(Instr. 5)	Bene
	Derivative				Securities	S		(Instr. 3	and 4)		Owne
	Security				Acquired						Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									\ maxmt		
									Amount		
						Date	Expiration	o Title N	Number		
						Exercisable	Date	o o			
				Code V	(A) (D)				hares		
				Code v	(A) (D)			S.	mares		

Reporting Owners

Reporting Owner Name / Address	Relationships					
•	Director	10% Owner	Officer	Other		
SPLINTER MICHAEL R C/O APPLIED MATERIALS, INC. P.O. BOX 58039, 3050 BOWERS AV, M/S 2023 SANTA CLARA, CA 95054	X		Chairman, President and CEO			

Signatures

/s/ Charmaine Mesina, Attorney-in-Fact

09/02/2009

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

Reporting Owners 2

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scheduled to vest in three 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.

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.