#### APPLIED MATERIALS INC /DE

Form 4

Stock

Stock

Common

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September ()	3, 2008											
FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION								OMB APPROVAL				
	Washington, D.C. 20549								3235-028			
Check the if no long subject to Section 1	ger STATEM 16.	MENT OF CH		IN BENEFICIAL OWNERSHIP OF CURITIES				Expires: Estimated burden ho response	urs per			
Form 5 obligation may consider <i>See</i> Instruction 1(b).	Section 17(	a) of the Publi		lding Co	mpan	y Act of	ge Act of 1934, of 1935 or Section 140	n				
Print or Type 1	Responses)											
1. Name and Address of Reporting Person * SPLINTER MICHAEL R			2. Issuer Name <b>and</b> Ticker or Trading Symbol				5. Relationship of Reporting Person(s) to Issuer					
			PLIED MAT IAT]	ERIALS	INC	:/DE	(Check all applicable)					
(Last) (First) (Middle)  C/O APPLIED MATERIALS,			3. Date of Earliest Transaction (Month/Day/Year) 08/31/2008				X Director 10% OwnerX Officer (give title Other (specify below) below)					
INC., PO B	OX 58039, 3050 AVE, M/S 2023	5, 00/2	7172000				Pres	ident and CEC	)			
				mendment, Date Original Month/Day/Year)				6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person				
SANTA CL	ARA, CA 95054						Form filed by M Person					
(City)	(State)	(Zip)	Table I - Non-	Derivative	Secu	rities Acc	quired, Disposed of	, or Beneficia	ally Owned			
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date any (Month/Day/Ye	Code ear) (Instr. 8)	4. Securi or(A) or D (Instr. 3,	ispose 4 and (A) or	d of (D) 5)	Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
Common Stock	08/31/2008		F	Amount 4,469 (1)	(D)	Price \$ 17.92	933,964 (2) (3)	D				
Common							300,000	I	Revocable			

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)

253.267 (4)

I

Trust

By the

401(k) Plan

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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	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Title	and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	orNumber	Expiration Date		Amour	nt of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Underl	ying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securit	ties	(Instr. 5)	Bene
	Derivative				Securities	3		(Instr. :	3 and 4)		Own
	Security				Acquired						Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									A		
									Amount		
						Date Expiratio Exercisable Date	Expiration	Title N			
							Date		Number		
				C + V	(A) (D)				of Cl		
				Code V	(A) (D)			i	Shares		

# **Reporting Owners**

Relationships Reporting Owner Name / Address

> 10% Owner Officer Other Director

SPLINTER MICHAEL R C/O APPLIED MATERIALS, INC. PO BOX 58039, 3050 BOWERS AVE, M/S 2023 SANTA CLARA, CA 95054

X

President and CEO

## **Signatures**

/s/ Charmaine Mesina, Attorney-in-Fact

09/03/2008

\*\*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 includes (a) 112,500 shares of restricted stock previously reported that are scheduled to vest in three equal annual installments beginning 12/19/08 (subject to continued employment), (b) 100,000 shares of restricted stock previously reported that, provided specified performance goals are achieved, are scheduled to vest no earlier than in four equal annual installments beginning 12/19/08 (subject to continued employment), and (c) 625,000 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. (Continued in footnote 3)
- (3) common stock upon vesting, which vesting is scheduled to occur as follows: 12,500 performance shares are scheduled to vest on 8/31/09; 262,500 performance shares are scheduled to vest in three equal annual installments beginning 12/19/08; and, provided specified performance goals are achieved, 350,000 performance shares are scheduled to vest no earlier than in four equal annual installments

Reporting Owners 2

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beginning 12/19/08 (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 401(k) Plan that are 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.