FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
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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* Sweeney Joseph J (Last) (First) (Middle) C/O APPLIED MATERIALS, INC. P.O. BOX 58039, 3050 BOWERS AV, M/S 2023 (Street) SANTA CLARA CA 95054					- 3. t 03.	Issuer Name and Ticker or Trading Symbol APPLIED MATERIALS INC /DE [AMAT] Date of Earliest Transaction (Month/Day/Year) 03/05/2008 4. If Amendment, Date of Original Filed (Month/Day/Year)								S. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director					pecify plicable
(City)	(S	tate)	(Zip)		-										Form fi Person	Form filed by More than One Reportir Person			
		Tab	le I - No	on-Deri	vativ	e Sec	urit	ies Ac	quired	l, Di	sposed o	f, or Be	neficia	lly (Owned			1	
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day)					Execution Date,			3. Transaction Code (Instr. 8)		4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a			and 5) Securi Benefi Owned		es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)				Instr. 4)
Common Stock 03/05/2							008				70,000	A	\$20.06	25	378,	690 ⁽¹⁾		D	
Common Stock 03/05/2					/2008	008			S		70,000	D	\$20.3	3	308,690		D		
Common Stock															9,891(2)			I	By the 401(k) Plan
		-	Table II								oosed of, convertil			/ Ov	vned			·	
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		3A. Deen Executio if any (Month/D	n Date,	Code (Ir				6. Date I Expiration (Month/I	on Da		of Securit Underlyin Derivative	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		Price of rivative curity str. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	lly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	ode V		(D)	Date Exercisa	able	Expiration Date	Title	Amount or Number of Shares						
Employee Stock Option (right to	\$20.0625	03/05/2008			M			70,000	07/15/2	005	04/03/2008	Common Stock	70,000		\$0	0		D	

Explanation of Responses:

1. Increased number of shares also reflects periodic payroll acquisitions under Employees' Stock Purchase Plan that are exempt under Rule 16a-10 and Rule 16b-3. Number of shares includes 256,000 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) 6,000 performance shares are scheduled to vest in two equal annual installments beginning 8/31/08, (b) 150,000 performance shares are scheduled to vest in three equal annual installments beginning 12/19/08, and (c) provided specified performance goals are achieved, 100,000 performance shares are scheduled to vest no earlier than in four equal annual installments beginning 12/19/08 (all vesting is subject to continued employment).

2. Increased number of shares reflects periodic payroll acquisitions under 401(k) Plan that are exempt under Rule 16b-3.

/s/ Joseph J. Sweeney 03/07/2008

** 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.