Sweeney Joseph J Form 4 August 20, 2012

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

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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

See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Sweeney Joseph J Issuer Symbol APPLIED MATERIALS INC /DE (Check all applicable) [AMAT] (Last) (First) (Middle) 3. Date of Earliest Transaction Director 10% Owner Other (specify X_ Officer (give title (Month/Day/Year) below) C/O APPLIED MATERIALS, 08/17/2012 Sr. VP, GC & Corp. Secretary INC., P.O. BOX 58039, 3050 BOWERS AV, M/S 1268 (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting SANTA CLARA, CA 95054 Person

(City)	(State)	(Zip) Tab	le I - Non-l	Derivative S	ecurit	ies Acqui	red, Disposed of	or Beneficial	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactio Code (Instr. 8)	4. Securities Acquired (A) our Disposed of (D) (Instr. 3, 4 and 5) (A) or			5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code V	Amount	(D)	Price	(Instr. 3 and 4)		
Common Stock	08/17/2012		M	100,000	A	\$ 8.58	603,344 (1)	D	
Common Stock	08/17/2012		S	100,000	D	\$ 11.89	503,344 (1)	D	
Common Stock							14,332.133 (2)	I	By the 401(k) Plan

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

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SEC 1474 (9-02)

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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transactic Code (Instr. 8)	5. Number of or Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount Number Shares
Employee Stock Option (Right to Buy)	\$ 8.58	08/17/2012		М		100,000	(3)	03/09/2014	Common Stock	100,00

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Sweeney Joseph J C/O APPLIED MATERIALS, INC. P.O. BOX 58039, 3050 BOWERS AV, M/S 1268 SANTA CLARA, CA 95054

Sr. VP, GC & Corp. Secretary

Signatures

/s/ Joseph J. 08/20/2012 Sweeney

**Signature of Date
Reporting Person

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).

Increased in 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 336,250 performance shares 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) 163,750 shares are scheduled to vest in installments during each December of 2012 through 2014; (b) provided specified performance goals are achieved,

(1) 22,500 shares will be scheduled to vest in installments during each December of 2012 through 2013; and (c) provided specified performance goals are achieved, 150,000 shares will be scheduled to vest in installments during each December of 2012 through 2015, which number of shares is the target award level, and the actual number of shares that may vest ranges from 0% to 150% of the target amount depending on achievement of specified performance goals (all vesting will be subject to continued employment through each applicable vest date).

Reporting Owners 2

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- (2) Increased number of shares reflects periodic payroll acquisitions and dividend reinvestment under 401(k) Plan that are exempt under Rule 16b-3.
- (3) 200,000 shares became exercisable on 4/1/2012.

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