SEC Form 4	
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### FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Oberelathis have if we have a subject to
Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(b).

### STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

# OMB APPROVAL OMB Number: 3235-0287 Estimated average burden

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Sweeney Joseph J       (Last)       (First)       (Middle)		Person*	2. Issuer Name and Ticker or Trading Symbol <u>APPLIED MATERIALS INC /DE</u> [ AMAT ]		ationship of Reporting Po ( all applicable) Director	erson(s) to Issuer 10% Owner
		( )	3. Date of Earliest Transaction (Month/Day/Year) 01/25/2007		Officer (give title below) Sr. VP, GC & Con	Other (specify below) rp. Secretary
P.O.BOX 58	8039, 3050 BOWE	CRS AVE, M/S 2023	4. If Amendment, Date of Original Filed (Month/Dav/Year)	6 Indiv	vidual or Joint/Group Fili	ing (Check Applicable
(Street) SANTA CL (City)	LARA CA (State)	95054 (Zip)	=	Line)	Form filed by One Re Form filed by More th Person	eporting Person

### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code ( 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1150.4)
Performance Shares (or Restricted Stock Units) <sup>(1)</sup>	01/25/2007		A		200,000 <sup>(2)</sup>	A	\$0	229,093 <sup>(3)</sup>	D	
Common Stock								8,542.309 <sup>(4)</sup>	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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code ( 8)		of		6. Date Exerc Expiration Da (Month/Day/Y	7. Title Amour Securi Underl Deriva Securi and 4)	nt of ties ying	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

#### Explanation of Responses:

1. The performance shares (or restricted stock units) will be converted on a one-for-one basis into shares of Applied Materials, Inc. common stock immediately upon vesting.

2. The performance shares will vest only after the satisfaction of specified performance goals. Provided such goals are achieved, vesting is scheduled to occur no earlier than in four equal annual installments commencing 12/19/07 (assuming continued employment).

3. Number of shares includes 9,000 performance shares previously reported that in the future will be converted on a one-for-one basis into shares of Applied Materials, Inc. common stock immediately upon vesting, which vesting is scheduled to occur in three equal annual installments beginning 8/31/07 (assuming continued employment).

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

/s/ Joseph J. Sweeney

\*\* Signature of Reporting Person Date

01/29/2007

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.