SEC Form 4	
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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

	Check this box if no longer subject to
1	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
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	Address of Reporting	Person*	2. Issuer Name and Ticker or Trading Symbol <u>APPLIED MATERIALS INC /DE</u> [AMAT]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner			
(1 aat)	(First)			x	Officer (give title below)	Other (specify below)	
(1.100)			02/22/2010	Sr. VP, GC & Corp. Secretary			
P.O. BOX	58039, 3050 BOW	TERS AV, M/S 2023		<u> </u>			
(Ctreat)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	vidual or Joint/Group Fili	ng (Check Applicable	
(Street)		95054		X	Form filed by One Re	porting Person	
SANTA CLARA CA		53034	_		Form filed by More th Person	an One Reporting	
(City)	(State)	(Zip)					

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)				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)
Common Stock	02/22/2010		S		50,000	D	\$12.398	331,381 ⁽¹⁾	D	
Common Stock								12,360.337 ⁽²⁾	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 3. Transaction 3A. Deemed 5. Number 6. Date Exercisable and 7. Title and 8. Price of 9. Number of 11. Nature 10 Conversion Expiration Date (Month/Day/Year) Amount of Securities Ownership Derivative Dat **Execution Date** Transaction of Derivative derivative of Indirect (Month/Day/Year) Derivative Securities Security or Exercise if any Code (Instr. Security (Instr. 5) Form: Beneficial Direct (D) or Indirect (Month/Day/Year) Price of Derivative Underlying Derivative (Instr. 3) 8) Securities Beneficially Ownership Owned (Instr. 4) Acquired (A) or Disposed Security (Instr. 3 (I) (Instr. 4) Security Following Reported Transaction(s) and 4) of (D) (Instr. 3, 4 and 5) (Instr. 4) Amount Number Expiration Date ν (A) (D) Title Code Exercisable Date Shares

Explanation of Responses:

1. Number of shares includes 240,000 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) 50,000 performance shares are scheduled to vest on 12/19/10; (b) 35,000 performance shares are scheduled to vest in two equal annual installments beginning 12/19/10; (c) provided specified performance goals are achieved, 30,000 performance shares are scheduled to vest (i) as to 22,500 shares no earlier than on 12/19/10; and (ii) as to 7,500 shares no earlier than on 12/19/11; and (d) provided specified performance goals are achieved, 125,000 performance shares are scheduled to vest no earlier than in four equal annual installments beginning 12/19/10 (all vesting is subject to continued employment through each vest date).

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

<u>/s/ Joseph J. Sweeney</u>

02/24/2010

** 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.