

JAMES SUSAN M.  
Form 4  
March 10, 2011

**FORM 4**

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

OMB APPROVAL

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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 OF SECURITIES**

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

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
JAMES SUSAN M.

2. Issuer Name and Ticker or Trading Symbol  
APPLIED MATERIALS INC /DE [AMAT]

5. Relationship of Reporting Person(s) to Issuer  
(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction (Month/Day/Year)  
03/08/2011

Director  10% Owner  
 Officer (give title below)  Other (specify below)

C/O APPLIED MATERIALS, INC., 3050 BOWERS AV, M/S 1268  
P.O. BOX 58039

(Street)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

SANTA CLARA, CA 95054

(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. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
Common Stock	03/08/2011		A	(A) or (D) Amount 12,666 (1)	Price \$ 0	32,784 (2)	D

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)**

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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. Transaction Code (Instr. 8)	5. Number of 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)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Owned Following Reporting Transaction (Instr. 6)
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## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
JAMES SUSAN M. C/O APPLIED MATERIALS, INC. 3050 BOWERS AV, M/S 1268 P.O. BOX 58039 SANTA CLARA, CA 95054		X		

## Signatures

/s/ Charmaine Mesina,  
Attorney-in-Fact  
Date: 03/10/2011

\*\*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 automatic annual grant of performance shares (restricted stock units) to non-employee member of the Board of Directors (the "Board") pursuant to the Applied Materials, Inc. ("Applied") Employee Stock Incentive Plan. These performance shares are scheduled to vest in four equal annual installments beginning 3/1/2012 (subject to continued service as a director through each vest date). Pursuant to Ms. James' election, any shares that vest from this grant will be converted to shares of Applied common stock and paid to her on the date of her termination of service from the Applied Board.

Number of shares includes: (a) 4,068 performance shares (restricted stock units) that previously vested and which, pursuant to Ms. James' election, will be converted to shares of Applied common stock and paid to her on the date of her termination of service from the Applied Board, and (b) 15,089 performance shares (restricted stock units) previously reported, of which (i) 2,884 shares will be converted in the future on a one-for-one basis into shares of Applied common stock upon vesting, which vesting is scheduled to occur in installments during each December of 2011 through 2013, and (ii) 12,205 shares are scheduled to vest in installments during each March of 2012 through 2014 and which, pursuant to Ms. James' election, will be converted to shares of Applied common stock and paid to her on the date of her termination of service from the Applied Board (all vesting is subject to continued service as a director through each vest date).

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.