FORM 3

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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 Add <u>Humiston N</u>		Person*	2. Date of Event Requiring Stater (Month/Day/Yea 06/22/2009	ment	3. Issuer Name and Ticker or Trading Symbol APPLIED MATERIALS INC /DE [ AMAT ]				
	(First) D MATERIALS 039, 3050 BOV	(Middle) S, INC. VERS AV, M/S			Relationship of Reporting Pers (Check all applicable)     Director     Officer (give title)	on(s) to Issue 10% Owne Other (spe	er (Mo	5. If Amendment, Date of Original Filed (Month/Day/Year)	
2023				X Officer (give title below)  Corp. VP, Globa	below)	6. Ir	6. Individual or Joint/Group Filing (Check Applicable Line)		
(Street) SANTA CLARA CA 95054				Corp. VI, Giod	ui IIIC	2	X Form filed by One Reporting Person Form filed by More than One Reporting Person		
(City)	(State)	(Zip)							
Table I - Non-Derivative Securities Beneficially Owned									
1. Title of Security (Instr. 4)					2. Amount of Securities Beneficially Owned (Instr. 4)			4. Nature of Indirect Beneficial Ownership (Instr. 5)	
Common Stock					70,000(1)	D			
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)									
1. Title of Derivative Security (Instr. 4)			2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Secur Underlying Derivative Securi		4. Conversion or Exercise	5. Ownership Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)
			Date Exercisable	Expiratio Date	on Title	Amount or Number of Shares	Price of Derivative Security	Direct (D) or Indirect (I) (Instr. 5)	
Employee Stock Option (right to buy)		04/01/2010 <sup>(2)</sup>	03/09/201	4 Common Stock	45,000	8.58	D		

## **Explanation of Responses:**

- 1. Number of shares consists of 70,000 performance shares (restricted stock units) 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 in four equal annual installments beginning 7/1/2009 and (b) 20,000 performance shares are scheduled to vest in four equal annual installments beginning 7/1/2010 (all vesting is subject to continued employment).
- 2. Shares become exercisable in three equal annual installments beginning on 4/1/2010 (subject to continued employment).

/s/ Mary E. Humiston 06/24/2009

\*\* 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 5 (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.

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