

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL

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hours per response: 0.5Filed 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 Address of Reporting Person* <u>EDMAN THOMAS T</u> (Last) (First) (Middle) <u>C/O APPLIED MATERIALS, INC.</u> <u>3050 BOWERS AV., M/S 1268, P.O.BOX</u> <u>58039</u> (Street) <u>SANTA CLARA</u> <u>CA</u> <u>95054</u> (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) <u>02/21/2011</u>	3. Issuer Name and Ticker or Trading Symbol <u>APPLIED MATERIALS INC /DE [AMAT]</u>	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>Group VP & GM, Display and AKT</u>	5. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	159,193 ⁽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 Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
Employee Stock Option (right to buy)	04/20/2005	01/16/2012	Common Stock	3,615	14.41	D	
Employee Stock Option (right to buy)	04/20/2005	01/16/2012	Common Stock	5,114	14.41	D	
Employee Stock Option (right to buy)	04/20/2005	04/17/2012	Common Stock	6,372	14.18	D	
Employee Stock Option (right to buy)	04/20/2005	04/17/2012	Common Stock	2,357	14.18	D	
Employee Stock Option (right to buy)	07/25/2006	07/25/2012	Common Stock	6,503	6.04	D	
Employee Stock Option (right to buy)	05/04/2006	10/16/2012	Common Stock	1,627	5.45	D	
Employee Stock Option (right to buy)	10/16/2005	10/16/2012	Common Stock	4,876	5.45	D	
Employee Stock Option (right to buy)	01/16/2007	01/16/2013	Common Stock	6,503	10.31	D	
Employee Stock Option (right to buy)	05/04/2006	04/23/2013	Common Stock	3,251	11.41	D	
Employee Stock Option (right to buy)	04/23/2005	04/23/2013	Common Stock	3,252	11.41	D	
Employee Stock Option (right to buy)	04/20/2005	07/24/2013	Common Stock	5,444	16.84	D	
Employee Stock Option (right to buy)	04/20/2005	07/24/2013	Common Stock	20,745	16.84	D	
Employee Stock Option (right to buy)	04/20/2005	10/22/2013	Common Stock	26,190	16.98	D	
Employee Stock Option (right to buy)	04/20/2005	01/21/2014	Common Stock	4,562	21.92	D	
Employee Stock Option (right to buy)	04/20/2005	01/21/2014	Common Stock	21,627	21.92	D	
Employee Stock Option (right to buy)	04/20/2005	04/21/2014	Common Stock	26,190	16.86	D	

Explanation of Responses:

1. Number of shares includes 140,250 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) 6,000 shares are scheduled to vest in August 2011; (b) 18,750 shares are scheduled to vest in installments during each July of 2011 through 2013; (c) 93,000 shares are scheduled to vest in installments during each January of 2012 through 2015; and (d) 22,500 shares are scheduled to vest in installments during each February of 2012 through 2014 (all vesting is subject to continued employment through each vesting date).

Remarks:

Form 1 of 2

/s/ Charmaine Mesina,
Attorney-in-Fact

03/02/2011

** 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.

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.

POWER OF ATTORNEY

The undersigned hereby constitutes and appoints each of Charmaine Mesina and Yvonne Leyba, signing singly, the undersigned's true and lawful attorney-in-fact to:

(1) execute for and on behalf of the undersigned, in the undersigned's capacity as an officer of Applied Materials, Inc. (the "Company"), Forms 3, 4 and 5 in accordance with Section 16(a) of the Securities Exchange Act of 1934 and the rules thereunder;

(2) do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such Form 3, 4 or 5, complete and execute any amendment(s) thereto, and timely file such form with the United States Securities and Exchange Commission and any stock exchange or similar authority; and

(3) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in such attorney-in-fact's discretion.

The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary or proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney-in-fact, or such attorney-in-fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this Power of Attorney and the rights and powers herein granted. The undersigned acknowledges that the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not assuming, nor is the Company assuming, any of the undersigned's responsibilities to comply with Section 16 of the Securities Exchange Act of 1934.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Forms 3, 4 and 5 with respect to the undersigned's holdings of and transactions in securities issued by the Company, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 22nd day of February, 2011.

/s/ Thomas T. Edman

Thomas T. Edman