FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
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Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
notruction 1/h)

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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 Address of Reporting Person* <u>Kerschbaum Manfred</u>						2. Issuer Name and Ticker or Trading Symbol APPLIED MATERIALS INC /DE [AMAT]									heck all a	pplicable) ector	g Person(s) to Issuer 10% Owner Other (specify		
		rst) (ERIALS, INC. 50 BOWERS A	Middle) V, M/S 2	023		3. Date of Earliest Transaction (Month/Day/Year) 12/19/2010										Officer (give title Other (specify below) Senior Vice President			
(Street) SANTA CLARA CA 95054 (City) (State) (Zip)					. 4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tabl	e I - No	n-Deriv	ative	Se	curitie	s Acc	quired,	Dis	posed o	f, or	Bene	eficia	lly Ow	ned			
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day				Execution Date,		Transaction D Code (Instr.		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4				d 5) Sec Ber Owi	mount of urities eficially ned Following orted	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership				
							Code	v	Amount	()	A) or D)	Price	Trai	nsaction(s) tr. 3 and 4)		(Instr. 4)			
Common Stock 12/19/2					/2010	2010		F		45,590	1)	D	\$13.	61	316,910(2)	D			
Common Stock													1	4,406.9 ⁽³⁾	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	onversion Exercise (Month/Day/Year) Execution Date, if any Code (Month/Day/Year) Execution Date, if any Code (Month/Day/Year) 8)		Instr.	of of of or. Of or. Of or. Of or. Of or. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable an Expiration Date (Month/Day/Year) Date Expirati Date		ee ear)	Amount of Securities Underlying Derivative Security (Instr. and 4) Amoun or Numbe of		ount nber	8. Price c Derivativ Security (Instr. 5)		Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			

Explanation of Responses:

- 1. Represents shares that were automatically withheld upon vesting of performance shares (restricted stock units) to cover tax withholding obligations in a transaction exempt under Rule 16b-3.
- 2. Number of shares includes 264,844 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 will be scheduled to occur as follows: (a) 61,719 shares will be scheduled to vest in installments during each December of 2011 through 2013; and (b) provided specified performance goals are achieved, 203,125 shares will be scheduled to vest in installments during each December of 2011 through 2014 (all vesting will be subject to continued employment through each vest
- 3. Increased number of shares reflects dividend reinvestment under the 401(k) Plan that are exempt under Rule 16b-3.

/s/ Charmaine Mesina, 12/21/2010 Attorney-in-Fact

** 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.

POWER OF ATTORNEY

The undersigned hereby constitutes and appoints each of Charmaine Mesina and Mary Zeigler, 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 24th day of March, 2005.