UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

POST-EFFECTIVE AMENDMENT NO. 3 TO FORM S-8 REGISTRATION STATEMENT

UNDER
THE SECURITIES ACT OF 1933

APPLIED MATERIALS, INC.

(Exact name of registrant as specified in its charter)

Delaware	94-1655526
(State or other jurisdiction of	(I.R.S. Employe
incorporation or organization)	Identification No

3050 Bowers Avenue, P.O. Box 58039, Santa Clara, California 95052-8039 (Address of Principal Executive Offices) (Zip Code)

APPLIED MATERIALS, INC. EMPLOYEES' STOCK PURCHASE PLAN (Full title of the plan)

Thomas F. Larkins
Senior Vice President, General Counsel and Corporate Secretary
Applied Materials, Inc.
3050 Bowers Avenue, P.O. Box 58039, Santa Clara, California 95052-8039
(Name and address of agent for service)

Telephone number, including area code, of agent for service: 1-408-727-5555

Copy to:
John E. Aguirre, Esq.
Wilson Sonsini Goodrich & Rosati, PC
650 Page Mill Road
Palo Alto, California 94304

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the

definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Securities Exchange Act of 1934:

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Large accelerated filer	\boxtimes			Accelerated filer	
Non-accelerated filer	\Box (Do not check if a smaller reporting compa	ny)		Smaller reporting company	

EXPLANATORY STATEMENT - DEREGISTRATION OF A PORTION OF SHARES

Effective as of October 28, 2012, Applied Materials, Inc. (the "Registrant") amended its Employees' Stock Purchase Plan (the "Plan") to decrease the number of shares of its common stock ("Shares") that is available for issuance under the Plan by 15,000,000 Shares. Accordingly, the purpose of this Post-Effective Amendment No. 3 to the Registrant's Registration Statement on Form S-8 (Commission File No. 333-143377), which was originally filed on May 30, 2007, amended by Post-Effective Amendment No. 1 thereto filed on July 27, 2009, and amended by Post-Effective Amendment No. 2 thereto filed on February 23, 2010 (the "Registration Statement"), is to reduce the number of Shares previously registered for issuance under the Plan pursuant to the Registration Statement (which number was 62,000,000) by 15,000,000 Shares that remain unsold. As a result, the Registration Statement now covers a maximum of 47,000,000 Shares.

Except to the extent specified above, the Registration Statement as previously filed is not amended or otherwise affected by this Post-Effective Amendment No. 3 thereto.

Signatures

THE REGISTRANT

Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this Post-Effective Amendment No. 3 to Registration Statement on Form S-8 (Commission File No. 333-143377) to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Santa Clara, State of California on the 5th day of December, 2012.

APF	PLIED MATERIALS, INC. (Registrant)	
Ву	/s/ Michael R. Splinter	
	Michael D. Splinter	

Chief Executive Officer

Pursuant to the requirements of the Securities Act of 1933, this Post-Effective Amendment No. 3 to Registration Statement on Form S-8 (Commission File No. 333-143377) has been signed by the following persons in the capacities and on the dates indicated.

Signature	Title	Date
Principal Executive Officer:		
/s/ Michael R. Splinter Michael R. Splinter	Chief Executive Officer	December 5, 2012
Principal Financial Officer:		
/s/ George S. Davis George S. Davis	Executive Vice President, Chief Financial Officer	December 5, 2012
Principal Accounting Officer:		
/s/ Thomas S. Timko Thomas S. Timko	Corporate Vice President, Corporate Controller and Chief Accounting Officer	December 5, 2012

*	Chairman of the Board	December 5, 2012
Michael R. Splinter		
*	Director	December 5, 2012
Aart J. de Geus	_	
*	Director	December 5, 2012
Stephen R. Forrest	_	
*	Director	December 5, 2012
Thomas J. Iannotti		December 5, 2012
*	5 .	D 1 5 0040
* Susan M. James	Director	December 5, 2012
Subum 11.1 Junited		
*	Director	December 5, 2012
Alexander A. Karsner		
*	Director	December 5, 2012
Gerhard H. Parker		
*	Director	December 5, 2012
Dennis D. Powell	_	
*	Director	December 5, 2012
Willem P. Roelandts		December 5, 2012
*	Divortor	December 5, 2012
James E. Rogers	Director	December 5, 2012
-		
*	Director	December 5, 2012
Robert H. Swan		

Joseph J. Sweeney Attorney-in-Fact**

By authority of the Power of Attorney of Directors filed as Exhibit 24.1 to this Post-Effective Amendment No. 3 to Registration Statement on Form S-8 (Commission File No. 333-143377).

EXHIBIT INDEX

- 4.1 Applied Materials, Inc. Employees' Stock Purchase Plan, amended and restated effective October 28, 2012, incorporated by reference to Exhibit 10.54 to the Registrant's Form 10-K (file no. 000-06920) filed December 5, 2012.
- 24.1 Power of Attorney of Directors.

POWER OF ATTORNEY OF DIRECTORS

KNOW ALL PERSONS BY THESE PRESENTS:

Each of the undersigned directors of Applied Materials, Inc., a Delaware corporation (the "Company"), hereby constitutes and appoints Michael R. Splinter, George S. Davis and Joseph J. Sweeney and each of them with power to act alone, his or her true and lawful attorney-in-fact, with full power of substitution and resubstitution, for him or her and in his or her name, place and stead, in any and all capacities, to execute a Post-Effective Amendment No. 3 to Registration Statement on Form S-8 (Commission File No. 333-143377) to deregister fifteen million shares of common stock of the Company that were previously registered under that Registration Statement for issuance under the Company's Employees' Stock Purchase Plan, as amended, and any and all additional amendments to such Registration Statement, including post-effective amendments, and to file the same, together with exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorney-in-fact full power and authority to do and perform each and every act and thing necessary or desirable to be done in and about the premises, as fully to all intents and purposes, as he or she might or could do in person, thereby ratifying and confirming all that said attorney-in-fact or his substitute or substitutes may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, we have hereunto set our hands this 3rd day of December, 2012.

/s/ Michael R. Splinter	/s/ Gerhard H. Parker	
Michael R. Splinter	Gerhard H. Parker	
/s/ Aart J. de Geus	/s/ Dennis D. Powell	
Aart J. de Geus	Dennis D. Powell	
/s/ Stephen R. Forrest	/s/ Willem P. Roelandts	
Stephen R. Forrest	Willem P. Roelandts	
/s/ Thomas J. Iannotti	/s/ James E. Rogers	
Thomas J. Iannotti	James E. Rogers	
/s/ Susan M. James	/s/ Robert H. Swan	
Susan M. James	Robert H. Swan	
/s/ Alexander A. Karsner		
Alexander A. Karsner		