

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, DC 20549**

Form 8-K

Current Report

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): December 23, 2003

APPLIED MATERIALS, INC.

(Exact name of registrant as specified in its charter)

0-6920

(Commission File Number)

Delaware

94-1655526

(State or other jurisdiction of incorporation)

(I.R.S. Employer Identification No.)

P.O. Box 58039

Santa Clara, CA 95054-3299

(Address of principal executive offices, with zip code)

(408) 727-5555

(Registrant's telephone number, including area code)

N/A

(Former name or former address, if changed since last report)

Item 7. Financial Statements, *Pro Forma* Financial Information and Exhibits.

(c) Exhibits.

<u>Exhibit</u>	<u>Description</u>
99.1	Press Release issued by Applied Materials, Inc. dated December 23, 2003.

Item 9. Regulation FD Disclosure.

On December 23, 2003, Applied Materials, Inc. (the Company) issued a press release, the text of which is attached hereto as Exhibit 99.1.

The information in this Current Report on Form 8-K, including the exhibit, is furnished pursuant to Item 9 and shall not be deemed “filed” for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to the liabilities under that Section. Furthermore, the information in this Current Report on Form 8-K, including the exhibit, shall not be deemed to be incorporated by reference into the filings of the Company under the Securities Act of 1933, as amended, regardless of any general incorporation language in such filings.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: December 23, 2003

APPLIED MATERIALS, INC.

By: /s/ JOSEPH J. SWEENEY

Joseph J. Sweeney
Group Vice President
Legal Affairs and Intellectual Property
and Corporate Secretary

Exhibit Index

Exhibit No.

Description

99.1*

Press Release issued by Applied Materials, Inc. dated December 23, 2003.

* Also provided in PDF format as a courtesy.

Release: Immediate

Contact: Jeffrey Lettes (editorial/media)
(408) 563-5161

Paul Bowman (investment community)
(408) 563-1698

**Applied Materials Announces Resignation of Dr. Sasson Somekh
from Company's Board of Directors**

SANTA CLARA, Calif., December 23, 2003 — Applied Materials, Inc. announced today that it has accepted the resignation of Dr. Sasson (Sass) Somekh from Applied Materials' Board of Directors. Dr. Somekh has been a director since April 30, 2003. The company announced on August 6, 2003, Dr. Somekh's resignation from day-to-day management responsibilities with the company, effective at the end of August.

Applied Materials (Nasdaq:AMAT), the largest supplier of products and services to the global semiconductor industry, is one of the world's leading information infrastructure providers.

Applied Materials' web site is <http://www.appliedmaterials.com>.

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