

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 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): June 20, 2007

Applied Materials, Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction
of incorporation)

000-06920
(Commission File Number)

94-165526
(IRS Employer
Identification No.)

3050 Bowers Avenue
P.O. Box 58039
Santa Clara, CA
(Address of principal executive offices)

95052-8039
(Zip Code)

Registrant's telephone number, including area code: (408) 727-5555

N/A
(Former name or former address, if changed since last report.)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Item 5.02 Departure of Directors or Certain Officers; Election of Directors; Appointment of Certain Officers; Compensatory Arrangements of Certain Officers.

(b) On June 20, 2007, Farhad Moghadam, Senior Vice President, General Manager Thin Films Product Business Group and Foundation Engineering, announced his intention to resign from Applied Materials, Inc. ("Applied").

Item 7.01 Regulation FD Disclosure.

On June 20, 2007, Applied issued a press release announcing the creation of a new Silicon Systems Group and Dr. Moghadam's intention to resign. A copy of the press release is attached hereto as Exhibit 99.1.

The information in this Item 7.01, including the exhibit, is furnished 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 liabilities under that section, and shall not be deemed to be incorporated by reference into the filings of Applied under the Securities Act of 1933, as amended, regardless of any general incorporation language in such filings.

Item 8.01 Other Events.

On June 19, 2007, the Board of Directors of Applied appointed Robert H. Brust, a current member of the Audit Committee, as Chairman of the Audit Committee, effective immediately. Mr. Brust replaces Philip V. Gerdine, who has provided significant and valuable contributions since his appointment as Chairman of the Audit Committee in 1976. Dr. Gerdine will continue to serve as a member of the Board of Directors and of the Audit Committee.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

<u>Exhibit No.</u>	<u>Description</u>
99.1	Press Release issued by Applied Materials, Inc. dated June 20, 2007.

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.

Applied Materials, Inc.
(Registrant)

Date: June 20, 2007

By: /s/ Joseph J. Sweeney
Joseph J. Sweeney
Senior Vice President, General Counsel and Corporate Secretary

EXHIBIT INDEX

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NEWS RELEASE

CONTACT:

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Applied Materials Names Tom St. Dennis Head of New Silicon Systems Group

SANTA CLARA, Calif., June 20, 2007 — Applied Materials, Inc. announced today that Tom St. Dennis, senior vice president, has been named general manager of the newly created Silicon Systems Group, effective immediately. St. Dennis assumes responsibility for a consolidated product business group that encompasses Applied Materials' entire portfolio of semiconductor manufacturing systems.

“As the semiconductor industry becomes increasingly consumer-driven, Applied Materials is meeting the challenge to deliver advanced innovation, while at the same time improving our operational effectiveness and efficiency,” said Mike Splinter, president and CEO of Applied Materials. “There are increasing opportunities for synergies across product platforms, engineering, manufacturing and the supply chain that support this move to a single silicon group. We believe this change will also improve our innovation on the next-generation technologies that are critical to our customers. Tom is a proven leader with the right experience to capture the full potential of this new unified organization.”

This new group consists of the product business groups responsible for the development, manufacturing and supply chain management of products for thin films deposition (physical vapor deposition, chemical vapor deposition and atomic layer deposition), chemical mechanical planarization, wet clean, etch, rapid thermal processing, epi, track and metrology and inspection. During fiscal year 2006, the businesses represented by this group reported revenue of \$6.0 billion and operating profit before tax of \$2.0 billion.

St. Dennis rejoined Applied in 2005 as senior vice president and general manager of Applied's Etch, Cleans, Front End and Implant Product Business Groups. His more than 25 years of semiconductor industry experience includes his previous leadership of Applied's Physical Vapor Deposition and Planarization and Dielectric Deposition Product Business Groups. In addition, he was president and CEO of Wind River Systems, a leader in embedded software, from 1999 to 2003. St. Dennis holds bachelors and masters degrees in physics from UCLA.

As part of this organizational change, Farhad Moghadam, senior vice president and general manager of the Thin Films Product Business Group and Foundation Engineering, has announced his intention to resign from the Company to pursue other interests. “We appreciate Farhad's many contributions to Applied over the past decade and wish him well in his future endeavors,” said Splinter.

Applied Materials, Inc. (Nasdaq: AMAT) is the global leader in Nanomanufacturing Technology™ solutions with a broad portfolio of innovative equipment, service and software products for the fabrication of semiconductor chips, flat panels, solar photovoltaic cells, flexible electronics and energy efficient glass. At Applied Materials, we apply Nanomanufacturing Technology to improve the way people live. Learn more at www.appliedmaterials.com.

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