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 13, 2005

Applied Materials, Inc.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction

0-6920 (Commission File Number)

94-1655526 (IRS Employer

of incorporation)

Identification No.)

3050 Bowers Avenue

P.O. Box 58039

Santa Clara, CA

95052-8039

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(Address of principal executive offices)

(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 Principal Officers; Election of Directors; Appointment of Principal Officers.

(b) On June 13, 2005, Steven L. Miller notified the Board of Directors of Applied Materials, Inc. (the Company) of his decision to resign as a director of the Company effective immediately in order to spend more time on non-profit and charitable activities.

SIGNATURE

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)

Dated: June 13, 2005

By: /s/ Joseph J. Sweeney

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

-2-