KLA TENCOR CORP Form 8-K May 05, 2006

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) May 5, 2006

KLA-TENCOR CORPORATION

(Exact name of registrant as specified in its charter)

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(State or other jurisdiction of incorporation)

000-09992 (Commission File Number) 04-2564110 (IRS Employer Identification No.)

160 Rio Robles

San Jose, California

95134 (Address of principal executive offices, including zip code)

(408) 875-3000 (Registrant s telephone number, including area code)

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 (see General Instruction A.2. below): o Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

o Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

o Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

o Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

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Item 8.01 Other Events

The Board of Directors of KLA-Tencor Corporation (the Company) has declared a quarterly cash dividend of 12 cents per share, payable on June 1, 2006 to stockholders of record on May 15, 2006. **Item 9.01. Financial Statements and Exhibits**

(c) Exhibits.

Exhibit No.	Description
10.01	Press Release dated May 5, 2006

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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.

KLA-TENCOR CORPORATION

By: /s/ Stuart J. Nichols

Stuart J. Nichols Vice President & General Counsel

Date: May 5, 2006

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EXHIBIT INDEX

Exhibit No.Description10.01Press Release dated May 5, 2006