

KLA TENCOR CORP  
Form 8-K  
February 11, 2011

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**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): 02/11/2011**

**KLA-TENCOR CORPORATION**

(Exact name of registrant as specified in its charter)

**Commission File Number: 000-09992**

**Delaware**  
(State or other jurisdiction of  
incorporation)

**04-2564110**  
(IRS Employer  
Identification No.)

**One Technology Drive, Milpitas, California 95035**  
(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:

- 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))
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**Item 8.01. Other Events**

On February 11, 2011, KLA-Tencor Corporation (the "Company") issued a press release announcing that the Company's Board of Directors has declared a cash dividend of \$0.25 per share on the Company's Common Stock. Such dividend shall be payable on March 1, 2011 to the Company's stockholders of record as of the close of business on February 22, 2011.

The Company further announced in the press release that its Board of Directors has authorized the repurchase of an additional 10 million shares of the Company's outstanding Common Stock. This 10 million share repurchase authorization is in addition to previous authorizations.

A copy of the press release is attached hereto as Exhibit 99.1.

**Item 9.01. Financial Statements and Exhibits**

(d) Exhibits

The following exhibit is filed herewith:

| Exhibit No. | Description                                                                    |
|-------------|--------------------------------------------------------------------------------|
| 99.1        | Text of press release issued by KLA-Tencor Corporation dated February 11, 2011 |

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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

Date: February 11, 2011

By: /s/ Brian M. Martin

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Brian M. Martin  
Senior Vice President and General Counsel

**EXHIBIT INDEX**

| <b><u>Exhibit No.</u></b> | <b><u>Description</u></b>                                                      |
|---------------------------|--------------------------------------------------------------------------------|
| EX-99.1                   | Text of press release issued by KLA-Tencor Corporation dated February 11, 2011 |