

KLA TENCOR CORP  
Form 8-K  
February 22, 2007

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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): February 22, 2007**

**KLA-TENCOR CORPORATION**

(Exact Name of Registrant  
as Specified in Charter)

Delaware

(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)

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

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):

- 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 1.01. Entry into a Material Definitive Agreement.**

On February 22, 2007, KLA-Tencor Corporation (the Company ) entered into a letter agreement (the Agreement ) with Merrill Lynch International ( Merrill Lynch ) relating to an accelerated share repurchase under which the Company will repurchase \$750 million of the Company s common stock from Merrill Lynch. Under the Agreement, the price at which the Company will repurchase shares will be determined based on a discount to the volume-weighted average price of the Company s common stock during a period following execution of the Agreement. The exact number of shares repurchased will be determined based on the volume-weighted average price of the Company s common stock during the same period, subject to a minimum that will be established in a similar manner following execution of the Agreement.

**Item 7.01. Regulation FD Disclosure.**

On February 22, 2007, KLA-Tencor issued a press release announcing the approval by its Board of Directors of a \$750 million accelerated share repurchase and an additional new 10 million share repurchase program. Both the accelerated share repurchase and the new 10 million share repurchase program are in addition to the existing 10 million share repurchase program authorized by the Company s Board of Directors in February 2005. Under the existing repurchase program, approximately 6.5 million shares have been repurchased to date and approximately 3.5 million shares remain available for repurchase. The press release is attached hereto as Exhibit 99.1. The information in Item 7.01 of this Form 8-K and the exhibit attached hereto shall not be deemed filed for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the Exchange Act ), or otherwise subject to the liabilities under that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, regardless of any general incorporation language in such filing.

**Item 9.01 Financial Statements and Exhibits.**

(d) Exhibits

The following exhibits are filed herewith:

Exhibit Number	Description
99.1	Text of press release issued by KLA-Tencor Corporation dated February 22, 2007.

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**SIGNATURES**

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

**KLA-TENCOR CORPORATION**

Date: February 22, 2007

By: /s/ Jeffrey L. Hall  
Name: Jeffrey L. Hall  
Title: Chief Financial Officer

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Exhibit Description

99.1 Text of press release issued by KLA-Tencor Corporation dated February 22, 2007.