

KLA TENCOR CORP  
Form 8-K  
December 27, 2006

**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): December 21, 2006  
KLA-TENCOR CORPORATION**

(Exact name of registrant specified in its charter)

Delaware

000-09992

04-2564110

(State or other jurisdiction of  
incorporation)

(Commission File Number)

(I.R.S. Employer Identification No.)

160 Rio Robles, San Jose, California

95134

(Address of principal executive offices)

(Zip Code)

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

(Former name and 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 5.02 Departure of Directors or Certain Officers; Election of Directors; Appointment of Certain Officers; Compensatory Arrangements of Certain Officers.**

(b)

On December 21, 2006, Mr. Jon D. Tompkins resigned from the Board of Directors of KLA-Tencor Corporation effective immediately.

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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: December 27, 2006

By: /s/ Jeffrey L. Hall

Name: Jeffrey L. Hall

Title: Chief Financial Officer