

KLA TENCOR CORP  
Form NT 10-K  
September 14, 2006

OMB APPROVAL  
OMB  
Number: 3235-0058  
Expires: April 30,  
2009  
Estimated average  
burden hours per  
response ... 2.50

SEC FILE NUMBER  
000-09992

CUSIP NUMBER  
482480100

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549  
FORM 12b-25  
NOTIFICATION OF LATE FILING**

(Check one):  Form 10-K  Form 20-F  Form 11-K  Form 10-Q  Form 10-D  Form N-SAR   
Form N-CSR

For Period Ended: June 30,  
2006

Transition Report on  
Form 10-K

Transition Report on  
Form 20-F

Transition Report on  
Form 11-K

Transition Report on  
Form 10-Q

Transition Report on  
Form N-SAR

For the Transition Period  
Ended:

*Read Instruction (on back page) Before Preparing Form. Please Print or Type.*

**Nothing in this form shall be construed to imply that the Commission has verified any information contained herein.**

If the notification relates to a portion of the filing checked above, identify the Item(s) to which the notification relates:

**PART I REGISTRANT INFORMATION**

KLA-TENCOR CORPORATION

Full Name of Registrant

Former Name if Applicable

160 Rio Robles

Address of Principal Executive Office (*Street and Number*)

San Jose, California 95134

City, State and Zip Code

**PART II RULES 12b-25(b) AND (c)**

If the subject report could not be filed without unreasonable effort or expense and the registrant seeks relief pursuant to Rule 12b-25(b), the following should be completed. (Check box if appropriate)

- (a) The reason described in reasonable detail in Part III of this form could not be eliminated without unreasonable effort or expense
- (b) The subject annual report, semi-annual report, transition report on Form 10-K, Form 20-F, Form 11-K, Form N-SAR or Form N-CSR, or portion thereof, will be filed on or before the fifteenth calendar day following the prescribed due date; or the subject quarterly report or transition report on Form 10-Q or subject distribution report on Form 10-D, or portion thereof, will be filed on or before the fifth calendar day following the prescribed due date; and
- (c) The accountant's statement or other exhibit required by Rule 12b-25(c) has been attached if applicable.

**PART III NARRATIVE**

State below in reasonable detail why Forms 10-K, 20-F, 11-K, 10-Q, 10-D, N-SAR, N-CSR, or the transition report or portion thereof, could not be filed within the prescribed time period.

As previously announced, a Special Committee of independent directors, appointed by the Board of Directors of KLA-Tencor Corporation (the Company), is conducting an internal investigation relating to stock options granted to the employees of the Company, the timing of such grants and their related accounting and tax treatment.

On June 30, 2006, the Company disclosed that the Special Committee reached a preliminary conclusion that the actual measurement dates for financial accounting purposes of certain stock option grants issued in prior years likely differ from the recorded grant dates of such awards. Neither the Special Committee nor the Board of Directors of the Company has yet determined whether any resulting compensation or tax charges are material or whether the Company ultimately will restate previously issued financial statements.

As a result of the ongoing investigation, the Company was unable to file its annual report on Form 10-K for the year ended June 30, 2006 by the required filing date of September 13, 2006 without unreasonable effort or expense. The Company does not anticipate that it will be able to file its Form 10-K on or before the fifteenth calendar day following the prescribed due date, in accordance with Rule 12b-25.

The Company is focused on resolving these issues as quickly as possible and plans to file its Form 10-K as soon as practicable following the completion of the Special Committee's investigation.

SEC 1344 (03-05) **Persons who  
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**information  
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(Attach extra Sheets if Needed)

**PART IV OTHER INFORMATION**

- (1) Name and telephone number of person to contact in regard to this notification

Jeffrey L. Hall  
(Name)

(408)  
(Area Code)

875-3000  
(Telephone Number)

- (2) Have all other periodic reports required under Section 13 or 15(d) of the Securities Exchange Act of 1934 or Section 30 of the Investment Company Act of 1940 during the preceding 12 months or for such shorter period that the registrant was required to file such report(s) been filed? If answer is no, identify report(s).

Yes  No

- (3) Is it anticipated that any significant change in results of operations from the corresponding period for the last fiscal year will be reflected by the earnings statements to be included in the subject report or portion thereof?

Yes  No

If so, attach an explanation of the anticipated change, both narratively and quantitatively, and, if appropriate, state the reasons why a reasonable estimate of the results cannot be made.

The Company expects to record additional stock-based compensation expenses and related charges which will have an impact on its financial statements. No reasonable estimate of the impact of such charges can be determined at this time, as the Company's independent investigation is on-going and the Company continues work on determining the accounting and tax impacts of the matters under investigation.

All statements included in this Form 12b-25, Notification of Late Filing, other than statements or characterizations of historical fact, are forward-looking statements. These forward-looking statements are based on the company's current expectations, estimates and projections about the company's industry and business, management's beliefs, and certain assumptions made by the company, all of which are subject to change. Forward-looking statements can often be identified by words such as "anticipates," "expects," "intends," "plans," "predicts," "believes," "seeks," "estimates," "may," "will," "should," "would," "could," "potential," "continue," "ongoing," similar expressions, and variations or negatives of these words. These statements are not guarantees of future performance and are subject to risks, uncertainties and assumptions that are difficult to predict. Therefore, the company's actual results could differ materially and adversely from those expressed in any forward-looking statements as a result of various factors. Our Annual Report on Form 10-K, subsequent Quarterly Reports on Form 10-Q, recent Current Reports on Form 8-K, and other SEC filings discusses important risk factors that could contribute to such differences or otherwise affect our business, results of operations and financial condition. We undertake no obligation to revise or update publicly any forward-looking statement for any reason, except as otherwise required by law.

KLA-TENCOR CORPORATION

(Name of Registrant as Specified in Charter)

has caused this notification to be signed on its behalf by the undersigned hereunto duly authorized.

Date September 14, 2006

By /s/ Jeffrey L. Hall

Jeffrey L. Hall  
Chief Financial Officer

**ATTENTION**

**Intentional misstatements or omissions of fact constitute Federal Criminal Violations (See 18 U.S.C. 1001).**