

KLA TENCOR CORP  
Form 10-Q/A  
November 24, 2010

**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

**FORM 10-Q/A**

**Amendment No. 1**

(Mark One)

**Quarterly Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934**  
For the quarterly period ended: September 30, 2010

or

**Transition Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934**  
For the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission File Number 000-09992

**KLA-Tencor Corporation**

(Exact name of registrant as specified in its charter)

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

**04-2564110**  
(I.R.S. Employer  
Identification No.)

**One Technology Drive**

**Milpitas, California**

**95035**

(Address of principal executive offices)

(Zip Code)

**(408) 875-3000**

(Registrant's telephone number, including area code)

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes  No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer  Accelerated filer  Non-accelerated filer  Smaller reporting company

(Do not check if a smaller reporting company)

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes  No

As of October 13, 2010, there were 167,064,459 shares of the registrant's Common Stock, \$0.001 par value, outstanding.

**KLA-Tencor Corporation**

**Explanatory Note**

The sole purpose of this Amendment No. 1 to KLA-Tencor Corporation's Quarterly Report on Form 10-Q for the period ended September 30, 2010, filed with the Securities and Exchange Commission on October 29, 2010 (the Form 10-Q) is to furnish Exhibit 101 to the Form 10-Q in accordance with Rule 405 of Regulation S-T. Exhibit 101 consists of the following eXtensible Business Reporting Language (XBRL) interactive data files that were omitted from KLA-Tencor Corporation's Form 10-Q:

101.INS	XBRL Instance Document
101.SCH	XBRL Taxonomy Extension Schema
101.CAL	XBRL Taxonomy Extension Calculation Linkbase
101.DEF	XBRL Taxonomy Extension Definition Linkbase
101.LAB	XBRL Taxonomy Extension Label Linkbase
101.PRE	XBRL Taxonomy Extension Presentation Linkbase

No other changes have been made to the Form 10-Q. This Amendment No. 1 speaks as of the original filing date of the Form 10-Q, does not reflect events that may have occurred subsequent to the original filing date, and does not modify or update in any way disclosures made in the original Form 10-Q.

In accordance with Rule 406T of Regulation S-T, the interactive data files on Exhibit 101 hereto are deemed not filed or part of a registration statement or prospectus for purposes of Sections 11 or 12 of the Securities Act of 1933, as amended, are deemed not filed for purposes of Section 18 of the Securities and Exchange Act of 1934, as amended, and otherwise are not subject to liability under those sections.

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**PART II. OTHER INFORMATION**

**ITEM 6. EXHIBITS**

**EXHIBIT INDEX**

<b>Exhibit Number</b>	<b>Exhibit Description</b>
10.45 (1)	Fiscal Year 2011 Performance Bonus Plan * +
31.1 (1)	Certification of Chief Executive Officer under Rule 13a-14(a)/15d-14(a) of the Securities Exchange Act of 1934
31.2 (1)	Certification of Chief Financial Officer under Rule 13a-14(a)/15d-14(a) of the Securities Exchange Act of 1934
32 (1)	Certification of Chief Executive Officer and Chief Financial Officer Pursuant to 18 U.S.C. Section 1350
101.INS (2)	XBRL Instance Document
101.SCH (2)	XBRL Taxonomy Extension Schema Document
101.CAL (2)	XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF (2)	XBRL Taxonomy Definition Linkbase Document
101.LAB (2)	XBRL Taxonomy Extension Label Linkbase Document
101.PRE (2)	XBRL Taxonomy Extension Presentation Linkbase Document

\* Denotes a management contract, plan or arrangement.

+ Confidential treatment has been requested as to a portion of this exhibit.

- (1) Previously filed as an exhibit to KLA-Tencor Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2010, filed with the Securities and Exchange Commission on October 29, 2010.
- (2) Furnished with this Form 10-Q/A.

**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 thereunto duly authorized.

	<b>KLA-Tencor Corporation</b> (Registrant)
November 23, 2010 (Date)	/s/ RICHARD P. WALLACE <b>Richard P. Wallace</b>  <b>President and Chief Executive Officer</b>  <b>(Principal Executive Officer)</b>
November 23, 2010 (Date)	/s/ MARK P. DENTINGER <b>Mark P. Dentinger</b>  <b>Executive Vice President and Chief Financial Officer</b>  <b>(Principal Financial Officer)</b>
November 23, 2010 (Date)	/s/ VIRENDRA A. KIRLOSKAR <b>Virendra A. Kirloskar</b>  <b>Senior Vice President and Chief Accounting Officer</b>  <b>(Principal Accounting Officer)</b>