

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, DC

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): October 6, 2016

KLA-TENCOR CORPORATION
(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation)

000-09992
(Commission File Number)

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)

Not Applicable
(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 2.02. Results of Operations and Financial Condition.

On October 6, 2016 during a publicly announced and available conference call, KLA-Tencor Corporation (the "Company") disclosed that it would come within the range it previously guided to in July 2016 with respect to shipments, revenue and earnings per share for the quarter ended September 30, 2016. The guidance can be found in Exhibit 99.2 to the Company's current report on Form 8-K furnished on July 28, 2016.

The relevant excerpt from the transcript for the conference call is attached as Exhibit 99.1 to this report and incorporated herein by reference.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits.

<u>Exhibit No.</u>	<u>Description</u>
99.1	Transcript excerpt

SIGNATURE

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: October 7, 2016

/s/ Teri A. Little

Teri A. Little

Senior Vice President and General Counsel

EXHIBIT INDEX

<u>Exhibit No.</u>	<u>Description</u>
99.1	Transcript excerpt

Transcript Excerpt
October 6, 2016 Conference Call

Bren Higgins: "So I do not plan to provide any update today other than saying that on all guided metrics: shipments, revenue and earnings per share, the Company performed within the range of guidance provided in late July."