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): May 2, 2018

KLA-TENCOR CORPORATION

(Exact name of registrant as specified in its charter)				
	Delaware	000-09992	04-2564110	
	(State or other jurisdiction of incorporation)	(Commission File Number)	(I.R.S. Employer Identification No.)	
	One Technology Drive, Milpitas, California		95035	
_	(Address of principal executive offices)		(Zip Code)	
Registrant's telephone number, including area code: (408) 875-3000				
(Former name or former address, if changed since last report)				
Check	the appropriate box below if the Form 8-K filing is int	ended to simultaneously satisfy the filing obligation	on of the registrant under any of the following provisions:	
X	Written communications pursuant to Rule 425 und	ler 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 H	Rule 14d-2(b) under the Exchange Act (17 CFR 24	40.14d-2(b))	

Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Item 8.01 Other Events.

On May 2, 2018, the 30-day waiting period under the Hart-Scott-Rodino Antitrust Improvements Act of 1976, as amended, related to the proposed merger with Orbotech Ltd. expired. Also on May 2, 2018, the Israel Antitrust Authority granted the request by KLA-Tencor Corporation (the "Company" or "KLA-Tencor") for an exemption from any premerger notification requirement in Israel related to the proposed merger with Orbotech.

On May 3, 2018, the Company issued a press release announcing that the Company's Board of Directors has declared a cash dividend of \$0.75 per share on the Company's common stock. Such dividend shall be payable on June 1, 2018 to the Company's stockholders of record as of the close of business on May15, 2018. A copy of the press release is attached hereto as Exhibit 99.1.

Additional Information and Where to Find It

This current report is provided in respect of a proposed business combination involving KLA-Tencor and Orbotech. This current report does not constitute an offer to sell or the solicitation of an offer to buy or subscribe for any securities or a solicitation of any vote or approval nor shall there be any sale, issuance or transfer of securities in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such jurisdiction. The proposed transaction will be submitted to the shareholders of Orbotech for their consideration. KLA-Tencor intends to file with the SEC a Registration Statement on Form S-4 that will include a preliminary prospectus with respect to KLA-Tencor's common stock to be issued in the proposed transaction and a proxy statement of Orbotech in connection with the merger of an indirect subsidiary of KLA-Tencor with and into Orbotech, with Orbotech surviving. The information in the preliminary proxy statement/prospectus is not complete and may be changed. KLA-Tencor may not sell the common stock referenced in the proxy statement/prospectus until the Registration Statement on Form S-4 becomes effective. The proxy statement/prospectus will be provided to the Orbotech shareholders. KLA-Tencor and Orbotech also plan to file other documents with the SEC regarding the proposed transaction.

This current report is not a substitute for any prospectus, proxy statement or any other document that KLA-Tencor or Orbotech may file with the SEC in connection with the proposed transaction. Investors and security holders of KLA-Tencor and Orbotech are urged to read the proxy statement/prospectus and any other relevant documents that will be filed with the SEC carefully and in their entirety when they become available because they will contain important information about the proposed transaction.

You may obtain copies of all documents filed with the SEC regarding this transaction, free of charge, at the SEC's website (www.sec.gov). In addition, investors and security holders will be able to obtain free copies of the proxy statement/prospectus (when they become available) and other documents filed with the SEC by KLA-Tencor on KLA-Tencor's Investor Relations page (ir.kla-tencor.com) or by writing to KLA-Tencor Corporation, Investor Relations, 1 Technology Drive, Milpitas, CA 95035 (for documents filed with the SEC by KLA-Tencor), or by Orbotech on Orbotech's Investor Relations page (investors.Orbotech.com) or by writing to Orbotech Ltd., Investor Relations, 7 Sanhedrin Boulevard, North Industrial Zone, Yavne 8110101 Israel (for documents filed with the SEC by Orbotech).

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

The following exhibit is filed herewith:

 Exhibit No.
 Description

 99.1
 Text of press release furnished by KLA-Tencor Corporation on May 3, 2018

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: May 3, 2018

By: Name:

Title:

/s/ TERI A. LITTLE Teri A. Little Executive Vice President and Chief Legal Officer

Investor Relations:	Media Relations:
Ed Lockwood	Becky Howland, Ph.D.
Sr. Director, Investor Relations	Sr. Director, Corporate Communications
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KLA-Tencor Declares Regular Cash Dividend for the Second Quarter of Calendar Year 2018

MILPITAS, Calif., May 3, 2018—<u>KLA-Tencor Corporation</u> (NASDAQ: KLAC) today announced that its board of directors has declared a quarterly cash dividend of \$0.75 per share on its common stock payable on June 1, 2018 to KLA-Tencor stockholders of record as of the close of business on May 15, 2018.

About KLA-Tencor:

KLA-Tencor Corporation, a leading provider of process control and yield management solutions, partners with customers around the world to develop state-of-the-art inspection and metrology technologies. These technologies serve the semiconductor and other related nanoelectronics industries. With a portfolio of industry-standard products and a team of world-class engineers and scientists, the company has created superior solutions for its customers for more than 40 years. Headquartered in Milpitas, Calif., KLA-Tencor has dedicated customer operations and service centers around the world. Additional information may be found at <u>www.kla-tencor.com</u>. (KLAC-F)

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