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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549**

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**FORM 6-K**

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**Report of Foreign Private Issuer  
Pursuant to Rule 13a-16 or 15d-16  
under the Securities Exchange Act of 1934**

**For the month of January 2019**

**Commission File Number 000-12790**

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**ORBOTECH LTD.**  
(Translation of Registrant's name into English)

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**7 SANHEDRIN BOULEVARD, NORTH INDUSTRIAL ZONE, YAVNE 8110101, ISRAEL**  
(Address of principal executive offices)

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Indicate by check mark whether the Registrant files or will file annual reports under cover of Form 20-F or Form 40-F:

Form 20-F       Form 40-F

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

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## Information Contained in this Report on Form 6-K

On January 29, 2019, KLA-Tencor Corporation (“KLA”) announced that KLA and Orbotech Ltd. (“Orbotech” or the “Company”) are continuing to work cooperatively with the Chinese antitrust authority, SAMR, and are finalizing discussions with them, and that KLA and Orbotech expect to receive SAMR’s approval this quarter.

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This report on Form 6-K is incorporated by reference into the Registration Statements on Form S-8 (Registration No. 33-25782, Registration No. 33-78196, Registration No. 333-05440, Registration No. 333-06542, Registration No. 333-08404, Registration No. 333-09342, Registration No. 333-11124, Registration No. 333-12692, Registration No. 333-127979, Registration No. 333-154394, Registration No. 333-169146, and Registration No. 333-207878) of Orbotech Ltd. previously filed with the Securities and Exchange Commission (the “SEC”).

### Cautionary Statement Regarding Forward-Looking Statements

This report contains forward-looking statements as defined in the Securities Exchange Act of 1934 and is subject to the safe harbors created therein. These forward-looking statements involve risks and uncertainties that could significantly affect the expected results of the proposed transaction and are based on certain key assumptions. Due to such uncertainties and risks, no assurances can be given that such expectations will prove to have been correct, and readers are cautioned not to place undue reliance on such forward-looking statements, which speak only as of the date hereof. The forward-looking statements contained herein include, but are not limited to, the manner in which the parties plan to effect the transaction, including the share repurchase program; the ability of KLA to raise additional capital necessary to complete the repurchase program within the time frame expected; the expected benefits, synergies and costs of the transaction; management plans relating to the transaction; the expected timing of receipt of SAMR approval and the completion of the transaction; the parties’ ability to complete the transaction considering the various closing conditions, including conditions related to regulatory and Orbotech shareholder approvals; the plans, strategies and objectives of management for future operations; product development, product extensions, product integration, complementary product offerings and growth opportunities in certain business areas; the potential future financial impact of the transaction; and any assumptions underlying any of the foregoing. Actual results may differ materially from those referred to in the forward-looking statements due to a number of important factors, including but not limited to the possibility that expected benefits of the transaction may not materialize as expected; that the transaction may not be timely completed, if at all; or that KLA may not be able to successfully integrate the solutions and employees of the two companies or ensure the continued performance or growth of Orbotech’s products or solutions.

In addition, other risks that KLA faces include those detailed in KLA’s filings with the SEC, including KLA’s annual report on Form 10-K for the year ended June 30, 2018 and subsequent SEC filings. Other risks that Orbotech faces include those detailed in Orbotech’s filings with the SEC, including Orbotech’s annual report on Form 20-F for the year ended December 31, 2017 and subsequent SEC filings. The Company is subject to the foregoing and other risks detailed in those reports. The Company assumes no obligation to update the information in this report to reflect new information, future events or otherwise, except as required by law.

### Additional Information and Where to Find It

This report is provided in respect of a proposed business combination involving KLA and Orbotech. This 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, sale, issuance or transfer would be unlawful prior to registration or qualification under the securities laws of any such jurisdiction. The proposed

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transaction was submitted to the shareholders of Orbotech for their consideration through the proxy statement/prospectus described below. On May 16, 2018, KLA filed with the SEC a Registration Statement on Form S-4 (the "Registration Statement") that included a preliminary proxy statement/prospectus with respect to Orbotech in connection with the merger of an indirect subsidiary of KLA with and into Orbotech, with Orbotech surviving, and with respect to KLA's common stock to be issued in the proposed transaction. The Registration Statement was amended and declared effective on June 7, 2018, a copy of the final proxy statement/prospectus contained therein was first made available to Orbotech shareholders on June 7, 2018 and was mailed to Orbotech shareholders on or about June 15, 2018 and the Extraordinary General Meeting of shareholders of Orbotech was held on July 12, 2018. KLA and Orbotech also plan to file other documents with the SEC regarding the proposed transaction.

**This report is not a substitute for any prospectus, proxy statement or any other document that KLA or Orbotech has or may file with the SEC in connection with the proposed transaction. Investors and security holders of KLA 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](http://www.sec.gov)). In addition, investors and security holders will be able to obtain free copies of the proxy statement/prospectus and other documents filed with the SEC by KLA on KLA's Investor Relations page (<http://ir.kla-tencor.com>) or by writing to KLA Corporation, Investor Relations, 1 Technology Drive, Milpitas, CA 95035 (for documents filed with the SEC by KLA), or by Orbotech on Orbotech's Investor Relations page ([investors.Orbotech.com](http://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).

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**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.

ORBOTECH LTD.  
(Registrant)

By: /s/ Alon Rozner  
Alon Rozner  
Corporate Vice President and  
Chief Financial Officer

Date: January 29, 2019