FORM 6-K

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

Report of Foreign Private Issuer

Pursuant to Rule 13a-16 or 15d-16 under the Securities Exchange Act of 1934

For the month of June 2006

Commission File Number 000-12790

ORBOTECH LTD.

(Translation of registrant s name into English)

SANHEDRIN BOULEVARD, NORTH INDUSTRIAL ZONE, YAVNE 81101, ISRAEL

(Address of principal executive offices)

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 X 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):

Indicate by check mark whether by furnishing the information contained in this Form, the registrant is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

Yes _____ No _X__

Attached hereto and incorporated by reference herein is the following document:

1. Press release issued by the Registrant on, and dated, June 5, 2006, and entitled Orbotech to Host Investor and Analyst Conference on June 13, 2006 .

* * * * * *

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 and Registration No. 333-127979) of Orbotech Ltd. previously filed with the Securities and Exchange Commission.

FOR IMMEDIATE RELEASE

ORBOTECH TO HOST INVESTOR AND ANALYST CONFERENCE ON JUNE 13, 2006

YAVNE, ISRAEL June 5, 2006 ORBOTECH LTD. (NASDAQ/NM SYMBOL: ORBK) today announced that the Company will be hosting an Investor and Analyst Conference on Tuesday, June 13, 2006, from 9:30 a.m. until 3:30 p.m. EDT, at its offices in Billerica, MA, USA. The event will feature an in-depth look at Orbotech, including presentations by Mr. Rani Cohen, Chief Executive Officer, and by other members of the Company s senior management team, as well as live demonstrations of the Company s Paragon laser direct imaging system and its Discovery PCB-AOI and SuperVision FPD-AOI systems.

Mr. Amichai Steinberg, Chief Financial Officer of Orbotech Ltd., commented: This will be an excellent opportunity for investment professionals to meet directly with the Company s most senior management, learn about our corporate assets, technologies and infrastructure and find out more about our strategies and plans.

For more information about attending this event, please contact Mr. Adam Rosen of RK Equity Advisors at arosen@rkequity.com or (646) 536-3865.

A live web cast of the conference presentations can also be heard at <u>http://www.wsw.com/webcast/orbk</u>/. A replay will be available for ninety days following the event.

About Orbotech Ltd.

Orbotech is a world leader in providing yield-enhancing, production support solutions for specialized applications in the supply chain of the electronics industry, principally for printed circuit boards (PCBs) and flat panel displays (FPDs). The Company designs, develops, manufactures, markets and services automated optical inspection (AOI) systems for bare and assembled PCBs and for FPDs, and imaging solutions for PCB production. The Company s innovative AOI, imaging and computer-aided manufacturing (CAM) technologies enable customers to achieve the increased yields and throughput essential to remaining at the forefront of electronics production. Through its subsidiary, Orbograph Ltd., the Company also develops and markets automatic check reading software to banks and other financial institutions. Of Orbotech s employees, more than one quarter are scientists and engineers, who integrate their multi-disciplinary knowledge, talents and skills to develop and provide sophisticated solutions and technologies designed to meet customers long-term needs. Orbotech maintains its headquarters and its primary research, development and manufacturing facilities in Israel, and more than 35 offices worldwide. The Company s extensive network of marketing, sales and customer support teams throughout North America, Europe, the Pacific Rim, China and Japan deliver its knowledge and expertise directly to customers the world over. For more information visit www.orbotech.com.

Except for historical information, the matters discussed in this press release are forward-looking statements that are subject to certain risks and uncertainties which could cause the actual results to differ materially from those projected, including industry trends, the timing and strength of product and service offerings, changes in business or pricing strategies, changes in the prevailing political and regulatory framework in which the relevant parties operate or in economic or technological trends or conditions, including currency fluctuations, inflation and consumer confidence, on a global, regional or national basis and other risks detailed from time to time in the Company s SEC reports. The Company assumes no obligation to update the information in this press release.

COMPANY CONTACTS: Adrian Auman Corporate Vice President of Finance and Investor Relations Orbotech Ltd. +972-8-942-3560

Michelle Harnish Marketing Communications Manager Orbotech, Inc. +1-978-901-5120

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/ Amichai Steinberg Amichai Steinberg Executive Vice President and Chief Financial Officer Date: June 6, 2006