UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 6-K

Report of Foreign Private Issuer

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

For the month of February 2005

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

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 contain the Commission pursuant to Rule 12g3-2(b) under the Securities Exch	ed in this Form, the registrant is also thereby furnishing the information to ange Act of 1934.
Yes "	No x

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

- Press release issued by the Registrant on, and dated, February 14, 2005, and entitled Orbotech Announces Fourth Quarter And Full Year 2004 Results .
- 2. Registrant s Condensed Consolidated Balance Sheet at December 31, 2004.
- 3. Registrant s Condensed Consolidated Statements of Income (Loss) for the Twelve Month and Three Month Periods ended December 31, 2004.

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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. 333-05440, Registration No. 333-08404, Registration No. 333-09342, Registration No. 333-11124 and Registration No. 333-12692) of Orbotech Ltd. previously filed with the Securities and Exchange Commission.

FOR IMMEDIATE RELEASE

COMPANY CONTACTS:
Adrian Auman, Corporate Vice President
Investor Relations, Director of Finance
Orbotech Ltd.
+972-8-942-3560
Amichai Steinberg, CFO and Corporate VP Finance
Orbotech Ltd.
+972-8-942-3524
www.orbotech.com

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

ORBOTECH ANNOUNCES FOURTH QUARTER AND FULL YEAR 2004 RESULTS

YAVNE, ISRAEL February 14, 2005 ORBOTECH LTD. (NASDAQ/NM SYMBOL: ORBK) today announced its consolidated financial results for the fourth quarter and full year ended December 31, 2004.

Revenues for the fourth quarter of 2004 were \$87.8 million, compared with \$62.3 million in the fourth quarter a year ago. Net income for the fourth quarter of 2004 was \$6.5 million, or \$0.20 per share (diluted), compared with a net loss of \$7.3 million, or \$0.23 per share (diluted), in the fourth quarter of last year. The results for the fourth quarter of 2004 include a special charge of \$2.9 million related to the Company s write-down of its venture capital investment in an Israeli company. The results for the fourth quarter of 2003 included special charges aggregating \$10.9 million, net of taxes.

Revenues for the year ended December 31, 2004 totaled \$315.2 million, compared with the \$228.4 million recorded in 2003. Net income for the year ended December 31, 2004 was \$29.5 million, or \$0.90 per share (diluted), compared with net loss of \$3.0 million, or \$0.09 per share (diluted), for the year ended December 31, 2003.

Sales of equipment to the PCB industry relating to bare PCBs in the fourth quarter of 2004 were \$32.7 million, compared with \$33.0 million in the third quarter of 2004 and \$23.7 million in the fourth quarter of 2003. Sales of equipment to the PCB industry relating to assembled PCBs were \$8.3 million, compared with \$7.4 million in the third quarter of 2004 and \$5.2 million in the fourth quarter of 2003. Sales of FPD inspection equipment in the fourth quarter of 2004 were \$26.4 million, compared with \$24.1 million in the third quarter of 2004 and \$14.3 million in the fourth quarter of 2003. Sales of automatic check reading products in the fourth quarter of 2004 were \$2.0 million, compared with \$1.1 million in the third quarter of 2004 and \$2.3 million in the fourth quarter of 2003. In addition, service revenue for the fourth quarter of 2004 was \$18.4 million, compared with \$17.1 million in the third quarter of 2004 and \$16.7 million in the fourth quarter of 2003.

The Company completed the quarter with cash equivalents and short-term and long-term cash investments of approximately \$182 million, compared with approximately \$162 million at the end of the third quarter.

The Company s results for the fourth quarter reflect increased capital expenditure by PCB and FPD manufacturers, especially on Orbotech s more sophisticated and technologically advanced products which are particularly suited to meet the complex technological needs of customers in the

industries which the Company serves. During the quarter, the Company recorded initial revenues from its new Discovery PCB-AOI systems and its Paragon direct imaging products, both of which were well received by customers.

During the fourth quarter, the Company accelerated its FPD-related research and development program in response to the earlier than anticipated need for Gen-8 equipment. In addition, after receipt of customer acceptances, the Company recorded initial revenues from sales of its Gen-6 in-line FPD-AOI system. Furthermore, during the first quarter of 2005, the Company received acceptance of its Gen-7 in-line FPD-AOI systems. Accordingly, revenue from these systems will be recognized during the first quarter of 2005.

Commenting on the results, Yochai Richter, Chief Executive Officer, said: We are pleased with our strong results for the quarter and for 2004 as a whole, in which we recorded significantly increased revenues and profitability over 2003. We are especially gratified by customers rapid and enthusiastic acceptances of our newly introduced products, which we see as a direct result of our ongoing and highly focused investments in research and development. Given the quality of Orbotech s existing product portfolio, the new solutions planned for introduction in the first half of the year and the current improved state of the worldwide electronics industry, we look forward to a successful 2005.

An earnings conference call is scheduled for Monday, February 14 2005, at 9:00 a.m. EST. The dial-in number for the conference call is 517-308-9005, and a replay will be available at 203-369-1929, until February 28, 2005. The pass code is Q4. A live web cast of the conference call can also be heard by accessing the investor relations section on the Company s website at 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.

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 check processing organizations. 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 30 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.

ORBOTECH LTD.

CONDENSED CONSOLIDATED BALANCE SHEET

AT DECEMBER 31, 2004

	December 31	December 31	
	2004	(Audited)	
	(Audited)		
	U. S. dollars in thousand		
<u>Assets</u>			
CURRENT ASSETS:			
Cash and cash equivalents	127,331	124,937	
Marketable securities	14,462	10,999	
Short-term bank deposits	10,000	6,900	
Accounts receivable:	20,000	0,5 0 0	
Trade	113,184	91,560	
Other	19,849	18,250	
Deferred income taxes	1,123	3,391	
Inventories	71,525	52,990	
Total current assets	357,474	309,027	
INVESTMENTS AND OTHER NON-CURRENT ASSETS:			
Marketable securities	29,987	15,829	
Other long-term Investments	8,332	10,560	
Non-current trade receivables	652	249	
Funds in respect of employee rights upon retirement	14,740	13,891	
Deferred income taxes	4,001	4,749	
	57,712	45,278	
PROPERTY, PLANT AND EQUIPMENT, net of accumulated depreciation and amortization	17,454	18,604	
GOODWILL AND OTHER INTANGIBLE ASSETS, net of accumulated amortization	11,231	13,539	
	443,871	386,448	
Liabilities and shareholders equity			
CURRENT LIABILITIES:			
Current maturity of long-term liability		6,151	
Accounts payable and accruals:		0,202	
Trade	35,261	19,178	
Other	57,950	44,890	
Total current liabilities	93,211	70,219	
ACCRUED SEVERANCE PAY	24,877	22,685	

Total liabilities	118,088	92,904
MINORITY INTEREST IN CONSOLIDATED SUBSIDIARY	503	455
SHAREHOLDERS EQUITY:		
Share capital	1,620	1,616
Additional paid-in capital	98,807	97,615
Deferred stock compensation	(455)	(921)
Retained earnings	247,632	218,146
Accumulated other comprehensive income		(1,043)
	347,604	315,413
Less treasury stock, at cost	(22,324)	(22,324)
Total shareholders equity	325,280	293,089
	443,871	386,448

ORBOTECH LTD.

CONDENSED CONSOLIDATED STATEMENTS OF INCOME (LOSS)

FOR THE TWELVE MONTH AND THREE MONTH PERIODS ENDED DECEMBER 31, 2004

	12 months ended			3 months ended December 31					
	December 31								
	-	2004		2003	2	2004	- 1	2003	
	(Audited)				(Unaudited)				
	U.S. dollars in thousands (exce				(excep	ccept per share data)			
REVENUES	3	15,168	2	228,392	8	37,768	Ć	62,303	
COST OF REVENUES: COST WRITE-DOWN OF INVENTORIES	1	76,535	1	30,917 7,448	5	50,144	3	35,203 7,448	
	1	76,535	1	38,365	5	50,144		12,651	
GROSS PROFIT RESEARCH AND DEVELOPMENT COSTS - net SELLING, GENERAL AND ADMINISTRATIVE EXPENSES AMORTIZATION OF OTHER INTANGIBLE ASSETS RESTRUCTURING CHARGES		38,633 47,997 52,951 2,308		90,027 39,456 48,000 2,400 3,786	1	37,624 3,095 4,170 577		19,652 9,886 12,669 600 3,786	
OPERATING INCOME (LOSS) FINANCIAL INCOME - net WRITE-DOWN OF LONG-TERM INVESTMENTS		35,377 1,252 (2,945)		(3,615) 2,379 (696)		9,782 390 (2,945)		(7,289) 623 (696)	
INCOME (LOSS) BEFORE TAXES ON INCOME TAXES ON INCOME	_	33,684 4,346	_	(1,932)		7,227 853		(7,362) (664)	
INCOME (LOSS) FROM OPERATIONS OF THE COMPANY AND ITS SUBSIDIARIES AND JOINT VENTURE MINORITY INTEREST IN PROFITS OF CONSOLIDATED SUBSIDIARY SHARE IN PROFITS (LOSSES) OF AN ASSOCIATED COMPANY	:	29,338 (48) 196		(1,993) (455) (507)		6,374 (13) 96		(6,698) (455) (105)	
NET INCOME (LOSS)	:	29,486		(2,955)	_	6,457		(7,258)	
EARNINGS (LOSS) PER SHARE: BASIC	\$	0.91	\$	(0.09)	\$	0.20	\$	(0.23)	
DILUTED	\$	0.90	\$	(0.09)	\$	0.20	\$	(0.23)	
WEIGHTED AVERAGE NUMBER OF SHARES (IN THOUSANDS) USED IN COMPUTATION OF EARNINGS (LOSS) PER SHARE:		_		_		_		_	
BASIC		32,251		32,031	3	32,251	3	32,122	

<u>DILUTED</u>	32,924	32,031	32,698	32,122

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 Corporate Vice President for Finance and Chief Financial Officer

Date: February 15, 2005