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 2007

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 are the following documents:

^{1.} Press release issued by the Registrant on, and dated, February 20, 2007, and entitled Orbotech Announces Fourth Quarter and Full Year 2006 Results .

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- 2. Registrant s Condensed Consolidated Balance Sheet at December 31, 2006.
- 3. Registrant s Condensed Consolidated Statements of Income for the Twelve Month and Three Month Periods ended December 31, 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 ANNOUNCES FOURTH QUARTER AND FULL YEAR 2006 RESULTS

YAVNE, ISRAEL February 20, 2007 ORBOTECH LTD. (NASDAQ/NM SYMBOL: ORBK) today announced its consolidated financial results for the fourth quarter and full year ended December 31, 2006.

Revenues for the fourth quarter of 2006 were \$103.3 million, compared to \$106.9 million recorded in the third quarter of 2006 and \$96.5 million in the fourth quarter a year ago. Net income for the fourth quarter of 2006 was \$9.4 million, or \$0.28 per share (diluted), compared with net income of \$12.0 million, or \$0.36 per share (diluted), in the fourth quarter of last year. Net income for the fourth quarter of 2006 includes a restructuring charge of \$3.3 million in connection with the Company s program to centralize its assembled PCB research and development activities at corporate headquarters in Israel. These results incorporate the adoption, on January 1, 2006, of revised Financial Accounting Standard No.123, Share Based Payment , which resulted in increased compensation expenses totaling approximately \$0.8 million, without any reduction in income taxes.

Revenues for the year ended December 31, 2006 totaled \$416.5 million, compared with the \$379.9 million recorded in 2005. Net income for the year ended December 31, 2006 was \$55.0 million, or \$1.65 per share (diluted), compared with net income of \$43.3 million, or \$1.30 per share (diluted), for the year ended December 31, 2005.

Sales of equipment to the PCB industry relating to bare PCBs in the fourth quarter of 2006 were \$40.8 million, compared with \$44.0 million in the third quarter of 2006 and \$38.4 million in the fourth quarter of 2005. Sales of equipment to the PCB industry relating to assembled PCBs were \$8.5 million this quarter, compared with \$9.3 million in the third quarter of 2006 and \$8.4 million in the fourth quarter of 2006 so f FPD inspection equipment in the fourth quarter of 2006 were \$27.8 million, compared with \$30.5 million in the third quarter of 2006 and \$28.1 million in the fourth quarter of 2005. Sales of automatic check reading products in the fourth quarter of 2006 were \$3.2 million, compared with \$1.5 million in the third quarter of 2006 and \$2.1 million in the fourth quarter of 2005. In addition, service revenue for the fourth quarter of 2006 increased to \$22.9 million from \$21.3 million in the third quarter of 2006 and \$19.3 million in the fourth quarter of 2005.

The Company completed the quarter with cash, cash equivalents and marketable securities of approximately \$270 million, compared with approximately \$256 million at the end of the third quarter, due principally to positive operating cash flow for the quarter of approximately \$13.4 million. Non- operating disbursements totaled approximately \$12.2 million, including \$9.1 million for the repurchase of approximately 357,000 Ordinary Shares of the Company pursuant to the Company s previously announced program, and \$3.1 million in capital expenditures.

The Company s results for the fourth quarter conclude a year in which it posted record annual revenues and strong margins despite sequentially lower revenues in the fourth quarter. The PCB business environment remains healthy, and the Company believes that customers expansion plans in 2007 will continue to drive sales of its flagship PCB product offerings, the Discovery, Paragon and Symbion systems.

The Company s FPD results for the quarter reflect the current trend in an industry where, although consumer demand for LCD televisions remains strong, some FPD manufacturers have, out of caution and in light of a certain degree of overcapacity, delayed additional investments until industry developments become clearer. The Company remains focused on developing and introducing new products for this industry in anticipation of the next upswing in capital expenditure by FPD manufacturers.

Commenting on the results, Rani Cohen, Chief Executive Officer, said: Our financial results for the quarter close out another strong year, which was marked by record revenues and significantly increased profitability compared with 2005. Through our focused investments in research and development and in our worldwide customer support infrastructure, we remain committed to ensuring that our customers meet the critical and growing challenges they are facing. We anticipate a challenging 2007 due to the current decrease in capital expenditure in the FPD industry; however, our excellent product portfolio will enable us to maintain our strong leadership position in the industries that we serve.

An earnings conference call is scheduled for Tuesday, February 20, 2007, at 9:00 a.m. EST. The dial-in number for the conference call is 210-234-0000, and a replay will be available at 203-369-3250, until March 6, 2007. 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.

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.

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ORBOTECH LTD.

CONDENSED CONSOLIDATED BALANCE SHEET

AT DECEMBER 31, 2006

U. S. dollars in t Assets CURRENT ASSETS: Cash and cash equivalents Marketable securities Accounts receivable: Trade 142,444 Other 21,572 Defen	thousands 156,112 24,165 126,101 16,884 3,856
CURRENT ASSETS:Cash and cash equivalentsMarketable securitiesAccounts receivable:TradeOther142,44421,572	24,165 126,101 16,884
Cash and cash equivalents187,187Marketable securities41,373Accounts receivable:142,444Trade142,444Other21,572	24,165 126,101 16,884
Marketable securities 41,373 Accounts receivable: 142,444 Other 21,572	24,165 126,101 16,884
Accounts receivable: Trade 142,444 Other 21,572	126,101 16,884
Trade 142,444 Other 21,572	16,884
Other 21,572	16,884
Deferred income taxes 3,369	5,050
Inventories 78,349	70,885
10,547	70,005
Total current assets 474,294	398,003
INVESTMENTS AND NON-CURRENT ASSETS:	
Marketable securities 41,100	31,096
Other long-term Investments 7,106	8,539
Non-current trade receivables 738	887
Severance pay fund 15,617	15,374
Deferred income taxes 1,684	1,264
66,245	57,160
PROPERTY, PLANT AND EQUIPMENT, net of accumulated depreciation and amortization 20,124	19,149
GOODWILL AND OTHER INTANGIBLE ASSETS, net of accumulated amortization 14,350	14,930
575,013	489,242
Liabilities and shareholders equity	
CURRENT LIABILITIES:	
Accounts payable and accruals:	
Trade 33,448	35,781
Deferred income 19,967	20,470
Other 49,420	39,360
Total current liabilities 102,835	95,611
ACCRUED SEVERANCE PAY 29,762	26,584
Total liabilities 132,597	122,195
MINORITY INTEREST IN CONSOLIDATED SUBSIDIARY 914	659
SHAREHOLDERS EQUITY:	
Share capital 1,680	1,635
Additional paid-in capital 132,578	103,329
Retained earnings 345,859	290,889
Accumulated other comprehensive income 7	83

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	480,124	395,936
Less treasury stock, at cost	(38,622)	(29,548)
Total shareholders equity	441,502	366,388
	575,013	489,242

ORBOTECH LTD.

CONDENSED CONSOLIDATED STATEMENTS OF INCOME

FOR THE TWELVE MONTH AND THREE MONTH PERIODS ENDED DECEMBER 31, 2006

	12 months ended December 31				3 months er December			r 31	
	2006 2005					2006 2005			
	U.S. dollars in thousands					· · · · /			
REVENUES		16,469	-	79,923				06,453	
COST OF REVENUES	2	26,908	2	16,732		57,176	2	53,296	
			162 101		16 105		10 1 55		
GROSS PROFIT		89,561	163,191		46,127		43,157		
RESEARCH AND DEVELOPMENT COSTS - net	60,473		55,761		16,769		14,634		
SELLING, GENERAL AND ADMINISTRATIVE EXPENSES	68,942		59,389			17,335		15,398	
AMORTIZATION OF OTHER INTANGIBLE ASSETS	580		2,635		145		730		
RESTRUCTURING CHARGES	3,332				3,332				
OPERATING INCOME	56,234		45,406		8,546		12,395		
FINANCIAL INCOME - net	7,404		3,503		2,478		1,053		
WRITE-DOWN OF LONG-TERM INVESTMENTS		(205)							
INCOME BEFORE TAXES ON INCOME	63,433		48,909			11,024		13,448	
TAXES ON INCOME		7,893		5,598		1,310		1,358	
INCOME FROM OPERATIONS OF THE COMPANY AND ITS									
SUBSIDIARIES AND JOINT VENTURE	55,540		43.311		9.714		12.090		
MINORITY INTEREST IN PROFITS OF CONSOLIDATED SUBSIDIARY	(255)		(156)		(202)		(99)		
SHARE IN PROFITS (LOSSES) OF AN ASSOCIATED COMPANY	(315)		102		(128)		41		
		(====)				()			
NET INCOME	54,970		43.257		9,384		12.032		
NET INCOME	54,970		45,257		9,304		12,032		
EARNINGS PER SHARE:									
BASIC	\$	1.66	\$	1.32	\$	0.28	\$	0.37	
DADIC	Ψ	1.00	Ψ	1.52	Ψ	0.20	Ψ	0.57	
DILUTED	\$	1.65	\$	1.30	\$	0.28	\$	0.36	
	Ψ	1.05	Ψ	1.50	Ψ	0.20	Ψ	0.50	
WEIGHTED AVERAGE NUMBER OF SHARES (IN THOUSANDS) USED IN									
COMPUTATION OF EARNINGS PER SHARE:	22.107		20 (57		22.266		32,613		
BASIC	33,105		32,657		33,366		1	52,015	
DILUTED	33,399		33,338		33,748		33,368		

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 Steimberg Amichai Steimberg

Executive Vice President

and Chief Financial Officer Date: February 20, 2007