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 May 2009

CAMTEK LTD.

(Translation of Registrant s Name into English)

Ramat Gavriel Industrial Zone P.O. Box 544 Migdal Haemek 23150 ISRAEL

(Address of Principal Corporate 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 o

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

Yes o No X

SIGNATURE

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.

CAMTEK LTD.

(Registrant)

By: /s/ Mira Rosenzweig

Mira Rosenzweig,

SIGNATURE 1

Chief Financial Officer

Dated: May 19, 2009

Camtek Ltd.
P.O.Box 544, Ramat Gabriel Industrial Park
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E-Mail: Info@camtek.co.il Web site: http://www.camtek.co.il

19-5-09

CAMTEK ANNOUNCES FIRST QUARTER 2009

FINANCIAL RESULTS

MIGDAL HAEMEK, Israel May 19, 2009 Camtek Ltd. (NASDAQ and TASE: CAMT), today announced its financial results for the first quarter ended March 31, 2009.

Revenues for the first quarter of 2009 amounted to \$9.3 million, compared to \$21.3 million in the first quarter of 2008 and \$12.4 million in the fourth quarter of 2008. Camtek s revenues continue to be affected by the global recession.

Gross profit margin for the first quarter of 2009 was 37%, compared to 44.5% in the first quarter of 2008 and 24% in the fourth quarter of 2008.

Operating loss for the first quarter of 2009 amounted to \$5.0 million compared to an operating income of \$0.1 million in the first quarter of 2008 and an operating loss of \$5.6 million in the fourth quarter of 2008.

Net loss for the first quarter of 2009 amounted to \$5.5 million, or \$0.19 per share, compared to a net income of \$0.5 million, or \$0.02 per share, in the first quarter of 2008 and a net loss of \$5.5 million, or \$0.19 per share in the fourth quarter of 2008. Net loss for the quarter was influenced by the considerably lower revenues and legal expenses in a sum of approximately \$2.0 million.

Net, cash and cash equivalents at March 31, 2009, totaled \$11.4 million, compared to \$14.4 million at the end of December 31, 2008.

The efficiency measures implemented both in previous and during the current quarter enabled us to reduce operating expenses this quarter, with savings becoming more evident in the coming quarters. These savings were offset by an approximately \$2 million of legal expenses recorded this quarter. While we are only half way through the second quarter, we estimate that revenues in the second quarter will be higher than those of the first quarter. said Rafi Amit, Camtek s CEO. We are operating in a highly volatile environment with our markets continuing to be deeply impacted by the global crisis. However, we believe that Camtek, with its leading product portfolio, strong customer base and leaner expense structure, will emerge stronger and more profitable company.

Conference Call

Camtek will host a conference call today, May 19, at 10:00 am EDT. Roy Porat, General Manager Camtek Israel and Mira Rosenzweig, Chief Financial Officer will host the call and will be available to answer questions after presenting the results.

To participate, please call one of the following telephone numbers at least 10 minutes before the start of the call, referencing the Camtek first quarter 2009 results conference call .

US: 1 888 723 3163 at 10:00 am Eastern Time Israel: 03 918 0691 at 5:00 pm Israel Time +972 3 918 0691

For those unable to participate, the teleconference will be available for replay on Camtek s website at http://www.camtek.co.il/ beginning 24 hours after the call.

ABOUT CAMTEK LTD.

With headquarters in Migdal Ha Emek Israel, Camtek Ltd., designs, develops, manufactures, and markets automatic optical inspection systems and related products. Camtek s automatic inspection systems are used to enhance both production processes and yield for manufacturers in the printed circuit board industry, the high density interconnect substrate industry and the semiconductor manufacturing and packaging industry. This press release is available at www.camtek.co.il

Contact Details CAMTEK

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IR INTERNATIONAL

GK International IR Ehud Helft / Kenny Green Tel: (US) 1 646 201 9246 info@gkir.com

This press release may contain projections or other forward-looking statements regarding future events or the future performance of the Company. These statements are only predictions and may change as time passes. We do not assume any obligation to update that information. Actual events or results may differ materially from those projected, including as a result of changing industry and market trends, reduced demand for our products, the timely development of our new products and their adoption by the market, increased competition in the industry, price reductions as well as due to risks identified in the documents filed by the Company with the SEC.

		Camtek Lt	
Consolidated Balance Sheets			
(In thousands)			
	March 31,	December 31,	
	2009	2008	
	U.S. Dollars	U.S. Dollars (In thousands)	
<u>Assets</u>			
Current assets			
Cash and cash equivalents	11,444	15,949	
Accounts receivable,	15,839	18,156	
nventories	11,614	9,792	
Oue from affiliates	356	414	
Other current assets	1,657	1,929	
Deferred tax asset	39	39	
Total current assets	40,949	46,279	
Fixed assets, net	15,507	15,648	
Long term inventory	17,826	21,653	
Deferred tax asset	127	127	
Other assets, net	1,012	1,028	
	18,965	22,808	
Total assets	75,421	84,735	

	March 31,	December 31,
Liabilities and shareholder's equity		
Current liabilities		
Short term loan	<u>-</u>	1,500
Accounts payable -trade	2,746	5,240
Due to affiliates	163	294
Convertible loan - current portion	1,667	1,667
Other current liabilities	11,629	11,382
Total current liabilities	16,205	20,083
Long term liabilities		
Convertible loan, net of current portion	1,666	1,666
Liability for employee severance benefits		271
Total liabilities	18,118	22,020
Commitments and contingencies		
Shareholders' equity		
Ordinary shares NIS 0.01 par value, authorized 100,000,000 shares, issued 31,227,484 in 2008 and 2009, outstanding		
29,135,108 in 2008 and 2009.	132	132
Additional paid-in capital	60,189	60,149
Retained earnings	(1,120)	4,332
	59,201	64,613
Treasury stock, at cost (2,092,376 shares in 2008 and 2009)	(1,898)	
Total shareholders' equity	57,303	62,715
Total liabilities and shareholders' equity	75,421	84,735
		Camtek Ltd
Canadidated Statements of Onesations		
-		
	Three months ended March 31,	Year ended December 31,
Consolidated Statements of Operations (in thousands, except share data)		
	March 31,	December 31,
(in thousands, except share data)	March 31, 2009 2008 U.S. dollars	December 31, 2008
(in thousands, except share data)	March 31, 2009 2008	December 31 2008 92 75,463
	March 31, 2009 2008 U.S. dollars 9,288 21,2	December 31, 2008 92 75,463 15 47,615

		Three months ended March 31,	
Research and development costs	2,587	2,995	12,801
Selling, general and administrative expenses	5,856	6,368	24,834
	8,443	9,363	37,635
Operating income (loss)	(4,982)	114	(9,787)
Financial income (expenses), net	(377)	466	1,000
Income (loss) before income taxes	(5,359)	580	(8,787)
Income tax	(93)	(87)	(770)
Net income (loss)	(5,452)	493	(9,557)
Net income (loss) per ordinary share:			
Basic	(0.19)	0.02	(0.32)
Diluted	(0.19)	0.02	(0.32)
Weighted average number of ordinary shares outstanding:			
Basic	29,207	30,231	29,916
Diluted	29,207	30,247	29,916