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 August 2013

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/ Moshe Eisenberg

Moshe Eisenberg, Chief Financial Officer

Dated: August 8, 2013

Camtek Ltd.

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CAMTEK LTD.

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FOR IMMEDIATE RELEASE

CAMTEK ANNOUNCES SECOND QUARTER 2013 RESULTS

Revenues of \$22.3 million growing 23% sequentially; operating income of \$1 million

MIGDAL HAEMEK, Israel – August 8, 2013 – Camtek Ltd. (NASDAQ and TASE: CAMT), today announced its financial results for the quarter ended June 30, 2013.

Highlights of the Second Quarter 2013

- Revenues of \$22.3 million up 23% over first quarter 2013 revenues;
- Non-GAAP operating income of \$1.2 million; GAAP operating income of \$1.0 million;
 - Non-GAAP net income of \$1.0 million; GAAP net income of \$0.3 million;
 - Positive operating cash flow of \$1.1 million;

Roy Porat, Camtek's Chief Executive Officer, commented, "We are very pleased with our second quarter results, with sequential revenue growth of 23% and non-GAAP operating income of \$1.2 million. Camtek's revenue model balances out the industry cyclicality by offering multiple products to the two markets in which we operate. Our Xact sample preparation product made an important contribution to the growth in this quarter's revenues."

Concluded Mr. Porat, "As we move into the second half of the year, similar to peers in our industry, we are seeing a pause with some push outs in expected orders. The general atmosphere, while cautious, remains positive, with expectations of growth in the latter part of the year and next year. Subsequently, for the third quarter we are expecting revenues sequentially slightly lower at a range between \$19-21 million. Taking a broader perspective, I believe Camtek is well positioned to take advantage of the cyclical markets in which we operate, with both our legacy inspection products as well as the new products coming into play."

Second Quarter 2013 Financial Results

Revenues for the second quarter of 2013 were \$22.3 million. This is a 23% improvement from prior quarter revenues of \$18.1 million and an 11% decrease from the second quarter of 2012.

Gross profit on a GAAP basis in the quarter totaled \$9.8 million (44.0% of revenues). This is a 20% improvement compared to \$8.2 million (45.4% of revenues) in the prior quarter and a 19% decrease compared to \$12.1 million in the second quarter of 2012 (48.2% of revenues). Gross profit on a non-GAAP basis in the quarter totaled \$9.9 million (44.4% of revenues). This is a 20% improvement compared to \$8.3 million (45.8% of revenues) in the prior quarter and a 19% decrease compared to \$12.2 million (48.6% of revenues) in the second quarter of 2012.

Operating income on a GAAP basis in the quarter was \$1.0 million (4.5% of revenues). This is compared to an operating loss of \$0.2 million in the prior quarter and to operating income of \$3.3 million in the second quarter of 2012 (13.0% of revenues). Operating profit on a non-GAAP basis in the quarter was \$1.2 million (5.4% of revenues). This is compared to an operating income of \$0.1 million (0.4% of revenues) in the prior quarter and of \$3.4 million (13.8% of revenues) in the second quarter of 2012.

Net income on a GAAP basis in the quarter totaled \$0.3 million or \$0.01 per diluted share. This is compared to a net loss of \$0.9 million or \$0.03 per share in the prior quarter and to net income of \$2.3 million or \$0.08 per share in the second quarter of 2012. Net income on a non-GAAP basis in the quarter was \$1.0 million or \$0.03 per diluted share. This is compared to a net loss of \$0.2 million or \$0.01 per share in the prior quarter and net income of \$3.0 million or \$0.10 per share in the second quarter of 2012.

Cash, cash equivalents and short-term deposits, net of bank loans as of June 30, 2013 were \$17.6 million compared to \$17.3 million as of March 31, 2013. The company generated \$1.1 million from operating cash flow during the second quarter of 2013. In addition, the company used cash to repay \$3.1 million of bank loans.

Conference Call

Camtek will host a conference call today, August 8, 2013, at 9:00 am ET.

Roy Porat, Chief Executive Officer and Moshe Eisenberg, 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 a few minutes before the start of the call.

US: 1 888 407 2553at 9:00 am Eastern Time Israel: 03 918 0644at 4:00 pm Israel Time

International: +972 3 918 0644

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.

Camtek Ltd. provides automated and technologically advanced solutions dedicated to enhancing production processes and increasing yields, enabling and supporting customer's latest technologies in the Semiconductors, Printed Circuit Boards (PCB) and IC Substrates industries.

Camtek addresses the specific needs of these interconnected industries with dedicated solutions based on a wide and advanced platform of technologies including intelligent imaging, image processing, adaptive ion milling (AIM) and digital material deposition (DMD). Camtek's solutions range from micro-to-nano by applying its technologies to the industries' specific requirements.

This press release is available at www.camtek.co.il.

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, intellectual property litigation, price reductions as well as due to risks identified in the documents filed by the Company with the SEC.

Use of non-GAAP Measures

This press release provides financial measures that exclude certain items such as: (i) amortization of acquired intangible assets and revaluation of liabilities with respect to the acquisitions of Sela and Printar; and (ii) share based compensation expenses, and are therefore not calculated in accordance with generally accepted accounting principles (GAAP). Management believes that these Non-GAAP financial measures provide meaningful supplemental information regarding our performance. The presentation of this non-GAAP financial information is not intended to be considered in isolation or as a substitute for the financial information prepared and presented in accordance with GAAP. Management uses both GAAP and non-GAAP measures when evaluating the business internally and therefore felt it is important to make these non-GAAP adjustments available to investors. A reconciliation between the GAAP and non-GAAP results appears in the tables at the end of this press release.

Consolidated Balance Sheets

| (In thousands) | | | |
|---|--------|--|--|
| | | December , 31, 2012 Dollars (In ousands) | |
| Assets | | , | |
| | | | |
| Current assets | | | |
| Cash and cash equivalents | 12,680 | 18,867 | |
| Short-term deposits | 7,660 | 7,160 | |
| Accounts receivable, net | 27,993 | 23,076 | |
| Inventories | 19,885 | 18,335 | |
| Due from affiliates | 386 | 391 | |
| Other current assets | 2,803 | 2,210 | |
| Deferred tax asset | 367 | 367 | |
| | | | |
| Total current assets | 71,774 | 70,406 | |
| | | | |
| Fixed assets, net | 15,889 | 15,822 | |
| | | | |
| Long term inventory | 4,548 | 7,090 | |
| Long-term deposit | 729 | 729 | |
| Deferred tax asset | 107 | 107 | |
| Other assets, net | 304 | 304 | |
| Intangible assets, net * | 2,845 | 2,971 | |
| Goodwill | 1,579 | 1,579 | |
| | 10,112 | 12,780 | |
| Total assets | 97,775 | 99,008 | |
| Liabilities and shareholders' equity | | | |
| Current liabilities | | | |
| Short term bank loans | 1,500 | 4,160 | |
| Accounts payable – trade | 11,206 | 7,610 | |
| Long term bank loans – current portion | 1,075 | 1,592 | |
| Other current liabilities | 12,552 | 13,850 | |
| outer current mannings | 12,032 | 12,020 | |
| Total current liabilities | 26,333 | 27,212 | |
| | | | |
| Long term liabilities | | | |
| Long term bank loans | 167 | 500 | |
| Liability for employee severance benefits | 736 | 710 | |
| Other long term liabilities * | 10,445 | 10,249 | |
| | 11,348 | 11,459 | |

| Total liabilities | 37,681 | | 38,671 | |
|--|--------|---|--------|---|
| | | | | |
| Commitments and contingencies | | | | |
| | | | | |
| Shareholders' equity | | | | |
| Ordinary shares NIS 0.01 par value, authorized 100,000,000 shares, | | | | |
| 32,138,251 issued as June 30, 2013 and 31,989,309 as of December 31, 2012, outstanding | | | | |
| 30,045,875 | | | | |
| as of June 30, 2013 and 29,896,933 as of December 31, 2012 | 133 | | 133 | |
| Additional paid-in capital | 61,703 | | 61,415 | |
| Accumulated income | 156 | | 687 | |
| | 61,992 | | 62,235 | |
| Treasury stock, at cost (2,092,376 as of June 30, 2013 and December 31, 2012) | (1,898 |) | (1,898 |) |
| | | | | |
| Total shareholders' equity | 60,094 | | 60,337 | |
| | | | | |
| Total liabilities and shareholders' equity | 97,775 | | 99,008 | |
| | | | | |
| (*) Relates to Printar and SELA acquisitions | | | | |