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 2008

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/ Ronit Dulberg

Ronit Dulberg, Chief Financial Officer

SIGNATURE 1

Dated: August 5, 2008

Camtek Ltd.

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E-Mail: Info@camtek.co.il Web site: http://www.camtek.co.il

August 5, 2008

FOR IMMEDIATE RELEASE

CAMTEK S SECOND QUARTER 2008 RESULTS CONFERENCE CALL

TO BE HELD ON TUESDAY, AUGUST 12, 2008

MIGDAL HA EMEK, Israel, August 5, 2008 Camtek Ltd. (Nasdaq: CAMT; TASE: CAMT) announced that it would be releasing its financial results for the second quarter of 2008 on Tuesday, August 12, 2008, and holding an investor conference call starting at 9:00 a.m. ET.

Rafi Amit, Chief Executive Officer and Ronit Dulberg, 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 second quarter 2008 results conference call.

US: 1 888 935 4577 at 9:00 a.m. Eastern Time **Israel:** 1 809 246 002 at 4:00 p.m. Israel Time

International (US): +1 718 354 1389

For those unable to participate, the teleconference will be available for replay on Camtek s website at http://www.camtek.co.i 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.

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.

CONTACT INFORMATION

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ABOUT CAMTEK LTD. 3