UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 20549

FORM 20-F

(Mark One)

o Registration statement pursuant to Section 12(b) or (g) of the Securities Exchange Act of 1934

or

x Annual report pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

For the fiscal year ended December 31, 2013

or

o Transition report pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

or

o Shell Company report pursuant to Section 13 or 15 (d) of the Securities Exchange Act of 1934

Date of event requiring this shall Company report _____

For the transition period from ______ to _____

Commission file number 000-30664

Camtek Ltd. (Exact name of Registrant as specified in its charter)

Israel

(Jurisdiction of incorporation or organization)

Ramat Gavriel Industrial Zone, P.O. BOX 544, Migdal Ha'Emek, Israel (Address of principal executive offices)

Moshe Eisenberg, Telephone: (972) (4) 6048100, Facsimile: (972) (4) 6048300, E-mail: moshee@camtek.co.il Ramat Gavriel Industrial Zone, P.O. BOX 544, Migdal Ha'Emek, Israel (Name, Telephone, E-Mail and/or Facsimile number and Address of Company Contact Person)

Securities registered or to be registered pursuant to Section 12(b) of the Act: Ordinary Shares, nominal value NIS 0.01 per share

(Title of each Class)

Nasdaq Global Market (Name of each Exchange on which registered)

Securities registered or to be registered pursuant to Section 12(g) of the Act:

None

(Title of Class)

Securities for which there is a reporting obligation pursuant to Section 15(d) of the Act:

None

(Title of Class)

Indicate the number of outstanding shares of each of the issuer's classes of capital or common stock as of the close of the period covered by the Annual Report:

29,896,933 Ordinary Shares, par value NIS 0.01 per share.

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

o Yes x No

If this report is an annual or transition report, indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934.

o Yes x No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

x Yes o No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files).

x Yes o No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, or a non-accelerated filer. See definition of "accelerated filer" and "large accelerated filer" in Rule 12b-2 of the Exchange Act (check one):

o Large Accelerated Filer o Accelerated Filer x Non-Accelerated Filer

Indicate by check mark which basis of accounting the registrant has used to prepare the financial statements included in this filing:

US GAAP x

International Financial Reporting Standards as issued by the International Accounting Standards Board o

Other o

If "Other" has been checked in response to the previous question, indicate by check mark which financial statement item the registrant has elected to follow.

Item 17 o Item 18 o

If this is an annual report, indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).

o Yes x No

2

TABLE OF CONTENTS

		PAGE
PART I		5
Item 1.	Identity of Directors, Senior Management and Advisers.	5
Item 2.	Offer Statistics and Expected Timetable.	5
Item 3.	Key Information.	5
Item 4.	Information on the Company.	17
Item 4A.	Unresolved Staff Comments.	28
<u>Item 5.</u>	Operating and Financial Review and Prospects.	28
<u>Item 6.</u>	Directors, Senior Management and Key Employees.	39
<u>Item 7.</u>	Major Shareholders and Related Party Transactions.	56
Item 8.	Financial Information.	58
<u>Item 9.</u>	The Offer and Listing.	59
<u>Item 10.</u>	Additional Information.	61
<u>Item 11.</u>	Quantitative and Qualitative Disclosures About Market Risk.	74
<u>Item 12.</u>	Description of Securities Other than Equity Securities.	75
PART II		75
<u>Item 13.</u>	Defaults, Dividend Arrearages and Delinquencies.	75
<u>Item 14.</u>	Material Modifications to the Rights of Security Holders and Use of Proceeds.	75
<u>Item 15.</u>	Controls and Procedures.	75
<u>Item 16A.</u>	Audit Committee Financial Expert.	77
<u>Item 16B.</u>	Code of Ethics.	77
<u>Item 16C.</u>	Principal Accountant Fees and Services.	77
<u>Item 16D.</u>	Exemptions from the Listing Standards for Audit Committees.	77
<u>Item 16E.</u>	Purchases of Equity Securities by the Issuer and Affiliated Purchasers.	78
<u>Item 16F.</u>	Change in Registrant's Certifying Accountant.	78
<u>Item 16G.</u>	Corporate Governance.	78
<u>Item</u> 16T.	Mine Safety Disclosure.	78
PART III		78
<u>Item 17.</u>	Financial Statements.	78
<u>Item 18.</u>	Financial Statements.	78
<u>Item 19.</u>	Exhibits.	79

Cautionary Language Regarding Forward-Looking Statements

Statements in this Annual Report about our future results, levels of activity, performance, goals or achievements or other future events constitute forward-looking statements. These statements involve known and unknown risks, uncertainties and other factors that may cause actual results or events to differ materially from those anticipated in our forward-looking statements. These factors include, among others, those listed under "Risk Factors" or described elsewhere in this Annual Report.

In some cases, you can identify forward-looking statements by our use of words such as "may," "will," "should," "could," "expects," "plans," "intends," "anticipates," "believes," "estimates," "predicts," "seeks," "strategy," "potential" or "continue" or other variations of these words, or other comparable words or phrases.

Although we believe that the expectations reflected in our forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance or achievements or other future events. We are under no duty to update any of our forward-looking statements after the date of this Annual Report, other than as required by law. You should not place undue reliance on forward-looking statements.

As used in this Annual Report, the terms "we", "us", "our", the "Company" and "Camtek" mean Camtek Ltd. and subsidiaries, unless otherwise indicated.

4

PART I

Item 1. Identity of Directors, Senior Management and Advisers.

Not applicable.

Item 2. Offer Statistics and Expected Timetable.

Not Applicable.

Item 3. Key Information.

A. Selected Consolidated Financial Data.

We derived the selected data under the captions "Selected Statement of Operations Data" for the years ended December 31, 2013, 2012 and 2011, and "Selected Balance Sheet Data" as of December 31, 2013 and 2012 from the audited consolidated financial statements included elsewhere in this Annual Report. We derived the selected data under the captions "Selected Statement of Income Data" for the years ended December 31, 2010 and 2009 and "Selected Balance Sheet Data" as of December 31, 2011, 2010 and 2009 from audited financial statements that are not included in this Annual Report.

For all fiscal periods for which consolidated financial data are set forth below, our consolidated financial statements are prepared in accordance with accounting principles generally accepted in the United States of America.

5

Year Ended December 31,

2013 2012 2011 2010 2009

U.S. Dollars (in thousands, except per share data)

U.S. Dollars (in thousands, except per share data)							
Selected Statement of Income							
Data:							
Revenues:							
Sales of products	67,864	66,929	88,404	70,235	39,196		
Service fees	17,541	17,618	18,624	17,545	14,325		
Total revenuesTotal revenues	85,405	84,547	107,028	87,780	53,521		
Cost of revenues:							
Cost of products sold	38,692	35,908	48,039	38,464	25,069		
Cost of services	12,311	11,574	11,549	10,897	10,970		
Total cost of revenues	51,003	47,482	59,588	49,361	36,039		
Gross profit	34,402	37,065	47,440	38,419	17,482		
Research and development costs	14,370	12,916	14,077	12,906	10,319		
Selling, general and							
administrative expenses	22,362	21,138	24,341	20,662	17,667		
Reorganization and impairment	(3,466)	3,031	-	-	-		
-							
Total operating expenses	33,266	37,085	38,418	33,568			