# UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

### FORM S-8

## REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

### ALCOBRA LTD.

(Exact name of registrant as specified in its charter)

## State of Israel

(State or other jurisdiction of incorporation or organization)

## Not applicable

(I.R.S. Employer Identification No.)

Amot Investment Building, 2 Weizman St. 9<sup>th</sup> Floor, Tel Aviv 6423902 Israel

(Address of Principal Executive Offices)

# Alcobra Ltd. 2010 Incentive Option Plan

(Full title of the plan)

Alcobra Inc.

600 West Germantown Pike, Suite 400, Plymouth Meeting, PA, 19462 Tel: (610)-940-1631

(Name, Address and Telephone Number of Agent for Service)

### COPIES TO:

Howard E. Berkenblit, Esq.
Shy S. Baranov, Esq.
Zysman, Aharoni, Gayer and Sullivan & Worcester LLP
1633 Broadway
New York, NY 10019
(212)-660-3000

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Zysman, Aharoni, Gayer & Co.
41-45 Rothschild Blvd.
Beit Zion
Tel Aviv 65784, Israel
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Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer or a smaller reporting company. See definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

 $\square$  Large Accelerated Filer  $\square$  Accelerated Filer  $\square$  Non-Accelerated Filer  $\square$  Smaller Reporting Company

# CALCULATION OF REGISTRATION FEE

Title of Securities to be Registered	Amount to be registered (2)	0	Proposed maximum ffering price per share	_0	Proposed maximum aggregate ffering price	_	Amount of istration fee
Ordinary Shares (1)	20,000	\$	18.49(3)	\$	369,800	\$	42.98
Ordinary Shares (1)	27,000	\$	17.20(3)	\$	464,400	\$	53.97
Ordinary Shares (1)	7,500	\$	16.62(3)	\$	124,650	\$	14.49
Ordinary Shares (1)	20,000	\$	16.10(3)	\$	322,000	\$	37.42
Ordinary Shares (1)	20,000	\$	19.26(3)	\$	385,200	\$	44.77
Ordinary Shares (1)	382,500	\$	3.29(3)	\$	1,258,425	\$	146.23
Ordinary Shares (1)	4,565	\$	7.66(4)	\$	34,968	\$	4.07
Total	481.565		N/a	\$	2.959.443	\$	343.93

- (1) Par value NIS 0.01 per share.
- Pursuant to Rule 416(a) under the Securities Act of 1933, as amended, or the Securities Act, this Registration Statement also covers an indeterminate number of additional securities which may be offered and issued to prevent dilution resulting from stock splits, stock dividends, recapitalizations or similar transactions.
- (3) Computed in accordance with Rule 457(h) promulgated under the Securities Act based on the exercise price of the options underlying the ordinary shares.
- (4) The fee is based on the number of Ordinary Shares which may be issued under the plan this Registration Statement relates to and is estimated in

### EXPLANATORY NOTE

We are filing this Registration Statement on Form S-8 in connection with 481,565 ordinary shares issuable to eligible directors, employees, office holders, service providers and consultants of Alcobra Ltd., or the Company, or the Registrant, and its affiliates, under the Company's 2010 Incentive Option Plan, or the Plan, which are in addition to the 1,364,533 ordinary shares under the Plan registered on the Company's Form S-8 filed on March 28, 2014 (Commission File No. 333-194875), or the Prior Registration Statement.

This Registration Statement relates to securities of the same class as those to which the Prior Registration Statement relates, and is submitted in accordance with General Instruction E to Form S-8 regarding Registration of Additional Securities. Pursuant to Instruction E of Form S-8, the contents of the Prior Registration Statement are incorporated herein by reference and made part of this Registration Statement, except as amended hereby.

Increases in the number of ordinary shares authorized for issuance under the Plan were approved by the board of directors of the Company on March 26, 2014, August 10, 2014 and December 16, 2014.

### PART I

# INFORMATION REQUIRED IN THE SECTION 10(a) PROSPECTUS

All information required by Part I to be contained in the prospectus is omitted from this Registration Statement in accordance with Rule 428 and the introductory note to Part I of Form S-8, in each case under the Securities Act of 1933, as amended.

### **PART II**

## INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

## Item 3. Incorporation of Documents by Reference.

The following documents filed with or furnished to the Securities and Exchange Commission, or the SEC, by the Registrant are incorporated herein by reference and made a part hereof:

- (1) The Registrant's Annual Report on Form 20-F for the fiscal year ended December 31, 2014, filed with the SEC on February 27, 2015; and
- (2) The description of the Registrant's ordinary shares, par value NIS 0.01 per share contained in the Registrant's registration statement on Form 8-A filed pursuant to the Securities the Exchange Act of 1934, as amended, or the Exchange Act, on May 17, 2013 (File No. 001-35932), including any amendment or report filed wit which updates such description.

In addition to the foregoing, all documents subsequently filed by the Registrant pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act, and all reports on Form 6-K subsequently filed by the Registrant which state that they are incorporated by reference herein, prior to the filing of a post-effective amendment which indicates that all securities offered hereunder have been sold or which deregisters all securities then remaining unsold, shall be deemed to be incorporated by reference herein and to be part hereof from the date of filing of such documents and reports.

Any statement contained in a document incorporated or deemed to be incorporated by reference herein shall be deemed to be modified or superseded for purposes of this Registration Statement to the extent that a statement herein, or in any subsequently filed document which also is or is deemed to be incorporated by reference, modifies or supersedes such statement. Any statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this registration statement.

## Item 8. Exhibits.

- 4.1<sup>(1)</sup> Articles of Association of the Registrant
- 5.1 Opinion of Zysman, Aharoni, Gayer & Co.
- 23.1 Consent of Kost Forer Gabbay & Kasierer, Certified Public Accountants (Israel) (a Member of Ernst & Young Global)
- 23.2 Consent of Zysman, Aharoni, Gayer & Co. (included in the opinion filed as Exhibit 5.1 to this Registration Statement)
- 24.1 Power of Attorney (included on signature page)
- 99.1<sup>(2)</sup> Alcobra Ltd. 2010 Incentive Option Plan, as amended

(1) Previously filed as Exhibit 3.2 to Form F-1/A filed with the SEC on March 19, 2013 (File No. 333-186003), and incorporated herein by reference.

(2) Previously filed as Exhibit 4.3 to Form 20-F filed with the SEC on February 27, 2015 (File No. 001-35932), and incorporated herein by reference.

### **SIGNATURES**

Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this Registration Statement on Form S-8 to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Tel-Aviv, State of Israel, on February 27, 2015.

## ALCOBRA LTD.

By: <u>/s/ Dr. Yaron Daniely</u> Name: Dr. Yaron Daniely

Title: Chief Executive Officer and President

## POWER OF ATTORNEY AND SIGNATURES

We, the undersigned officers and directors of Alcobra Ltd., hereby severally constitute and appoint Yaron Daniely and Tomer Berkovitz, and each of them individually, our true and lawful attorney to sign for us and in our names in the capacities indicated below any and all amendments or supplements, including any post-effective amendments, to this Registration Statement on Form S-8 and to file the same, with exhibits thereto and other documents in connection therewith, with the SEC, granting unto said attorney full power and authority to do and perform each and every act and thing requisite or necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming our signatures to said amendments to this Registration Statement signed by our said attorney and all else that said attorney may lawfully do and cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act, this Registration Statement on Form S-8 has been signed below by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>				
/s/ Dr. Yaron Daniely	Chief Executive Officer, President and Director (principal executive officer)	February 27, 2015			
Dr. Yaron Daniely					
/s/ Dr. Tomer Berkovitz	Chief Financial Officer (principal financial officer February 27, 2015 and principal accounting officer)				
Dr. Tomer Berkovitz					
/s/ Howard B. Rosen Howard B. Rosen	Chairman of the Board	February 27, 2015			
Howard B. Rosen					
/s/ Arieh Ben Yosef	Director	February 27, 2015			
Arieh Ben Yosef	_				
	_Director				
Daniel E. Geffken					
/s/ Dr. Hadas Gelander	Director	February 27, 2015			
Dr. Hadas Gelander	_				
/s/ Ehud (Udi) Gilboa	Director	February 27, 2015			
Ehud (Udi) Gilboa		1 cordaily 27, 2010			
/s/ Ori Mor	_Director	February 27, 2015			
Ori Mor					
/s/ Dr. Aharon Schwartz	Director	February 27, 2015			
Dr. Aharon Schwartz	_				

# SIGNATURE OF AUTHORIZED REPRESENTATIVE IN THE UNITED STATES

Pursuant to the Securities Act of 1933, as amended, the undersigned, the duly authorized representative in the United States of Alcobra Ltd., has signed this Registration Statement on Form S-8 on February 27, 2015.

## ALCOBRA INC.

By: <u>/s/ Dr. Yaron Daniely</u> Name: Dr. Yaron Daniely

Title: Chief Executive Officer and President

February 27, 2015

Alcobra Ltd. Amot Investment Building, 2 Weizman St. 9th Floor, Tel Aviv 6423902 Israel

Re: REGISTRATION STATEMENT ON FORM S-8

### Ladies and Gentlemen:

We are acting as Israeli counsel for Alcobra Ltd., an Israeli company (the "Company"), in connection with the preparation of a Registration Statement on Form S-8 (the "Registration Statement") under the Securities Act of 1933, as amended (the "Act"), pertaining to the registration of an additional 481,565 Ordinary Shares nominal value NIS 0.01 per share of the Company (the "Plan Shares") under the Alcobra Ltd. 2010 Incentive Option Plan (the "Plan").

In rendering our opinion, we have examined, and have relied as to factual matters solely upon, originals or copies certified, or otherwise identified to our satisfaction, of such documents, corporate records or other instruments as we have deemed necessary or appropriate for the purposes of this opinion. In our examination we have assumed the genuineness of all signatures, the authenticity of all documents submitted to us as originals, and the conformity with the originals of all documents submitted to us as copies. We have, when relevant facts material to our opinion were not independently established by us, relied to the extent we deemed such reliance proper upon written or oral statements of officers and other representatives of the Company.

In giving the opinion expressed herein, no opinion is expressed as to the laws of any jurisdiction other than the State of Israel.

Based upon and subject to the foregoing, we are of the opinion that the Plan Shares, when issued pursuant to the terms of the Plan, and the terms of any agreements relating to such issuance, will be upon receipt of the consideration provided for in the Plan, validly issued, fully paid and nonassessable.

This opinion is intended solely for the benefit and use of the Company and other persons who are entitled to rely on the Registration Statement, and is not to be used, released, quoted, or relied upon by anyone else for any purpose (other than as required by law), without our prior written consent.

We hereby consent to the filing of this opinion as Exhibit 5.1 to the Registration Statement, and to the use of our name wherever appearing in the Registration Statement in connection with Israeli law. In giving such consent, we do not thereby admit that we are in the category of persons whose consent is required under Section 7 of the Act or the rules and regulations of the Securities and Exchange Commission promulgated thereunder.

Very truly yours,

### /S/ ZYSMAN AHARONI GAYER & CO., LAW OFFICES

Zysman, Aharoni, Gayer & Co., Law Offices

# **Consent of Independent Registered Public Accounting Firm**

We consent to the incorporation by reference, in the Registration Statement (Form S-8) pertaining to the Alcobra Ltd. 2010 Incentive Option Plan of our report dated February 26, 2015 with respect to the consolidated financial statements of Alcobra Ltd. and its subsidiary included in the Annual Report on Form 20-F of Alcobra Ltd. for the year ended December 31, 2014 filed with the Securities and Exchange Commission.

Tel-Aviv, Israel February 26, 2015 /s/ Kost Forer Gabbay & Kasierer Kost Forer Gabbay & Kasierer A member of EY Global