UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 20549

FORM 8-A

FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES PURSUANT TO SECTION 12(b) OR 12(g) OF THE SECURITIES EXCHANGE ACT OF 1934

ALCOBRA LTD.

(Exact name of registrant as specified in its charter)

State of Israel	Not Applicable
(State of incorporation or organization)	(I.R.S. Employer Identification No.)
35 Ehad Ha-Am Street 4 th Floor	
Tel-Aviv, Israel	65202
(Address of principal executive offices)	(Zip Code)
Securities to be registered pursuant to Section 12(b) of the Act:	
Title of each class	Name of each exchange on which
to be so registered	each class is to be registered
Ordinary shares, par value NIS 0.01 per share	The NASDAQ Stock Market LLC
If this form relates to the registration of a class of securities pursuant to Section 12(b) of the Exchange Act and is effective pursuant to General Instruction A. (c), check the following box. \boxtimes	
If this form relates to the registration of a class of securities pursuant to Section (d), check the following box. \Box	12(g) of the Exchange Act and is effective pursuant to General Instruction A.
Securities Act registration statement file number to which this form relates: 333	- 186003 (If applicable)
Securities to be registered pursuant to Section 12(g) of the Act: None	

Item 1. Description of Registrant's Securities to be Registered.

The description of the ordinary shares of the Registrant set forth under the caption "Description of Share Capital" in the prospectus forming a part of the Registrant's Registration Statement on Form F-1 (File No. 333-186003) filed with the U.S. Securities and Exchange Commission (the "Commission") on January 14, 2013, as amended (the "Registration Statement"), shall be deemed to be incorporated by reference herein. In addition, any description of such securities contained in a form of prospectus relating to the Registration Statement subsequently filed by the Registrant with the Commission pursuant to Rule 424(b) under the Securities Act of 1933, as amended, shall be deemed to be incorporated by reference herein.

Item 2. Exhibits.

Because no other securities of the Registrant are registered on The NASDAQ Capital Market, and the securities being registered by this Registration Statement on Form 8-A are not being registered pursuant to Section 12(g) of the Securities Exchange Act of 1934, as amended, no exhibits are required to be filed with this Registration Statement on Form 8-A.

SIGNATURE

Pursuant to the requirements of Section 12 of the Securities Exchange Act of 1934, the Registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized.

ALCOBRA LTD.

Date: May 17, 2013

By: /s/ Dr. Yaron Daniely

Dr. Yaron Daniely

Chief Executive Officer and President