UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G Under the Securities Exchange Act of 1934

(Amendment No. 1)*

ALCOBRA LTD.						
(Name of Issuer)						
Ordinary Shares						
(Title of Class of Securities)						
M2239P109						
(CUSIP Number)						
November 13, 2015						
(Date of Event Which Requires Filing of this Statement)						
Check the appropriate box to designate the rule pursuant to which this Schedule is filed:						
 □ Rule 13d-1(b) ☑ Rule 13d-1(c) □ Rule 13d-1(d) 						
*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.						
The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 (" <i>Act</i> ") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).						

CUSIP No. M2239P109	13G

1.			porting Persons. cation Nos. of above perso	(ontities only)	
	1.K.S.	аепит	ication ivos. of above perso	s (entities only).	
		RA	Capital Management, LL		
2.		_	propriate Box if a Member	f a Group (See Instructions)	
	(a) (b)				
	` ′	- 0.1			
3.	SEC U	se Onl	У		
4.	Citizer	ship o	r Place of Organization	Massachusetts	
Number of		5.	Sole Voting Power	0 shares	
Shares Beneficially Owned by		6.	Shared Voting Power	3,032,911 shares	
Each Reporting Person With	;	7.	Sole Dispositive Power	0 shares	
Terson with		8.	Shared Dispositive Powe	3,032,911 shares	
9.	Aggreg	gate Aı	nount Beneficially Owned	y Each Reporting Person	
		3,03	2,911 shares		
10.	Check	if the	Aggregate Amount in Row) Excludes Certain Shares (See Instructions)	
11.	Percen	t of Cl	ass Represented by Amoun	in Row (9)	
		11.1	%		
12.	Type o	f Repo	rting Person (See Instruction	s)	
		IA			

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1. Names of Reporting Persons.										
	I.R.S. Identification Nos. of above persons (entities only).									
	Peter Kolchinsky									
2.	Check the Appropriate Box if a Member of a Group (See Instructions)									
۷.	(a) \Box									
	(b) \Box									
3.	SEC Use Only									
4.	Citizenship or Place of Organization United States									
Number of	5. Sole Voting Power 0 shares									
Shares Beneficially	6. Shared Voting Power 3,032,911 shares									
Owned by Each Reporting	7. Sole Dispositive Power 0 shares									
Person With	8. Shared Dispositive Power 3,032,911 shares									
9.	Aggregate Amount Beneficially Owned by Each Reporting Person									
	3,032,911 shares									
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) □									
10.										
11.	Percent of Class Represented by Amount in Row (9)									
	11.1%									
12.	Type of Reporting Person (See Instructions)									
	IN									

1.	Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only).								
		RA	Capital Healthcare Fund, L.P.						
2.	Check	the Ap	propriate Box if a Member of a Group (See Inst	ructions)					
	(a) (b)								
	(0)								
3.	SEC U	Jse Onl	ÿ						
4.	Citizei	nship o	Place of Organization Delaware						
Number of		5.	Sole Voting Power 0 shares						
Shares Beneficially		6.	Shared Voting Power 2,514,921 share	es					
Owned by Each Reporting Person With	3	7.	Sole Dispositive Power 0 shares						
Person with		8.	Shared Dispositive Power 2,514,921 share	es s					
9.	Aggre	gate Aı	nount Beneficially Owned by Each Reporting P	erson					
		2,51	4,921 shares						
10.	Check	if the	Aggregate Amount in Row (9) Excludes Certain	Shares (See Instructions)					
11.	Percer	nt of Cl	ass Represented by Amount in Row (9)						
		9.2%	, D						
12.	Type o	of Repo	rting Person (See Instructions)						
		PN (Limited Partnership)						

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Item 1.

- (a) Name of Issuer: ALCOBRA LTD. (the "Issuer").
- (b) Address of the Issuer's Principal Executive Offices: Amot Investment Building, 2 Weizman Street, 9th Floor, Tel Aviv 6423902 Israel.

Item 2.

- (a) **Name of Person Filing:** This joint statement on Schedule 13G is being filed by Peter Kolchinsky, RA Capital Management, LLC ("Capital"), and RA Capital Healthcare Fund, L.P. (the "Fund"). Mr. Kolchinsky, Capital and the Fund are collectively referred to herein as the "Reporting Persons."
- (b) Address of Principal Business Office: The principal business office of the Reporting Persons is c/o RA Capital Management, LLC, 20 Park Plaza, Suite 1200, Boston, MA 02116.
- (c) Citizenship: Capital is a Massachusetts limited liability company. The Fund is a Delaware limited partnership. Mr. Kolchinsky is a United States citizen.
- (d) Title and Class of Securities: Ordinary Shares
- (e) CUSIP Number: M2239P109

Item 3. If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

Not applicable.

Item 4. Ownership:

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

(a) Amount Beneficially Owned:**

RA Capital Management, LLC -3,032,911 shares Peter Kolchinsky -3,032,911 shares RA Capital Healthcare Fund, L.P. -2,514,921 shares

(b) Percent of Class:**

RA Capital Management, LLC – 11.1% Peter Kolchinsky – 11.1% RA Capital Healthcare Fund, L.P. – 9.2%

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- (c) Number of shares as to which such person has:
 - (i) sole power to vote or to direct the vote **

RA Capital Management, LLC - 0 shares Peter Kolchinsky - 0 shares RA Capital Healthcare Fund, L.P. - 0 shares

(ii) shared power to vote or to direct the vote**

RA Capital Management, LLC – 3,032,911 shares Peter Kolchinsky – 3,032,911 shares RA Capital Healthcare Fund, L.P. – 2,514,921 shares

(iii) sole power to dispose or to direct the disposition of**

RA Capital Management, LLC - 0 shares Peter Kolchinsky - 0 shares RA Capital Healthcare Fund, L.P. - 0 shares

(iv) shared power to dispose or to direct the disposition of**

RA Capital Management, LLC – 3,032,911 shares Peter Kolchinsky – 3,032,911 shares RA Capital Healthcare Fund, L.P. – 2,514,921 shares

**Capital is the general partner of the Fund and serves as its investment adviser. Capital also serves as investment adviser for a separately managed account (the "Account"). As the investment adviser for the Fund and the Account, Capital may be deemed a beneficial owner, for purposes of Section 13(d) of the Securities Exchange Act of 1934 (the "Act"), of any securities of the Issuer owned by the Fund or the Account. Mr. Kolchinsky is the manager of Capital and therefore may be deemed a beneficial owner, for purposes of Section 13(d) of the Act, of any securities of the Issuer beneficially owned by Capital. Capital is a registered investment adviser within the meaning of Rule 13d-1(b)(1)(ii)(E), and Mr. Kolchinsky is a control person of Capital within the meaning of Rule 13d-1(b)(1)(ii)(G). Capital and Mr. Kolchinsky disclaim beneficial ownership of the securities reported above other than for the purpose of determining their obligations under Section 13(d) of the Act, and the filing of this Amendment shall not be deemed an admission that either Capital or Mr. Kolchinsky is the beneficial owner of such securities for any other purpose. Shares reported herein for the Fund represent Ordinary Shares held of record by the Fund. Shares reported herein for Capital represent (a) the Ordinary Shares reported for the Fund and (b) Ordinary Shares held in the Account.

Item 5. Ownership of Five Percent or Less of a Class:

Not applicable.

Item 6. Ownership of More than Five Percent on Behalf of Another Person:

Not applicable.

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Item 7. Identification and	Classification of the Subsidiary	Which Acquire	d the Security	Being Reported	on By the Par	ent Holding	Company or
Control Person:							

Not applicable.

Item 8. Identification and Classification of Members of the Group:

Not applicable.

Item 9. Notice of Dissolution of Group:

Not applicable.

Item 10. Certification:

By signing below I hereby certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

Exhibits

Joint Filing Agreement by and among the Reporting Persons is incorporated herein by reference to Exhibit 1 to the Schedule 13G filed by the Reporting Persons with the Securities and Exchange Commission on July 6, 2015.

SIGNATURE

	After reasonable inquiry	and to the	best of my k	nowledge ar	nd belief, I cer	tify that the	information	set forth in thi	s statement is true,	complete and
correct.										

DATE: November 18, 2015

RA CAPITAL MANAGEMENT, LLC

By: /s/ Rajeev Shah

Rajeev Shah Authorized Signatory

PETER KOLCHINSKY

/s/ Peter Kolchinsky

RA CAPITAL HEALTHCARE FUND, L.P.

By: RA Capital Management, LLC

Its: General Partner

By: /s/ Rajeev Shah

Rajeev Shah

Authorized Signatory