

Axovant Sciences Ltd.  
Form SC 13G  
February 16, 2016

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

**SCHEDULE 13G**

Under the Securities Exchange Act of 1934

(Amendment No. \_\_)\*

Axovant Sciences Ltd.  
(Name of Issuer)

**Common Stock, par value \$0.00001 per share**  
(Title of Class of Securities)

**G0750W104**  
(CUSIP Number)

**December 31, 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.

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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 (“*Act*”) 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. **G0750W104 13G**

Names of Reporting Persons.  
I.R.S. Identification Nos. of above  
persons (entities only).

1.

**RA Capital Management, LLC**

Check the Appropriate Box if a

2. Member of a Group (See  
Instructions)

(a) ..

(b) ..

3. SEC Use Only

4. Citizenship or Place of

Organization **Massachusetts**

Number of	5. Sole Voting Power	<b>0 shares</b>
Shares	6. Shared Voting Power	<b>5,000,000 shares</b>
Beneficially	7. Sole Dispositive Power	<b>0 shares</b>
Owned by	8. Shared Dispositive Power	<b>5,000,000 shares</b>
Each Reporting		
Person With		

Aggregate Amount Beneficially Owned by Each Reporting Person

9.

**5,000,000 shares**

Check if the Aggregate Amount in Row (9) Excludes ..

10.

Certain Shares (See Instructions)

Percent of Class Represented by Amount in Row (9)

11.

**5.0%**

12. Type of Reporting Person (See Instructions)

**IA**

CUSIP No. **G0750W104** <sup>13G</sup>

Names of Reporting  
Persons.  
I.R.S. Identification  
Nos. of above persons  
1.(entities only).

**Peter Kolchinsky**

Check the  
2. Appropriate Box if a  
Member of a Group  
(See Instructions)  
(a) ..  
(b) ..

3. SEC Use Only

Citizenship or Place  
of  
4. Organization **United**  
**States**

Number of Shares Beneficially Owned by Each Reporting Person With	5. Sole Voting Power	<b>0 shares</b>
	6. Shared Voting Power	<b>5,000,000 shares</b>
	7. Sole Dispositive Power	<b>0 shares</b>
	8. Shared Dispositive Power	<b>5,000,000 shares</b>

9. Aggregate Amount Beneficially Owned by Each Reporting Person  
**5,000,000 shares**

Check if the Aggregate Amount in Row (9) Excludes ..

10.

Certain Shares (See Instructions)

Percent of Class Represented by Amount in Row (9)

11.

**5.0%**

Type of Reporting Person (See Instructions)

12.

**IN**

CUSIP No. **G0750W104 13G**

Names of Reporting Persons.  
I.R.S. Identification Nos. of  
above persons (entities only).

1.

**RA Capital Healthcare Fund,  
L.P.**

Check the Appropriate Box if a

2. Member of a Group (See  
Instructions)

(a) ..  
(b) ..

3. SEC Use Only

4. Citizenship or Place of  
Organization **Delaware**

Number of	5. Sole Voting Power	<b>0 shares</b>
Shares	6. Shared Voting Power	<b>4,113,552 shares</b>
Beneficially	7. Sole Dispositive Power	<b>0 shares</b>
Owned by	8. Shared Dispositive Power	<b>4,113,552 shares</b>
Each Reporting		
Person With		

Aggregate Amount Beneficially Owned by Each Reporting Person

9. **4,113,552 shares**

Check if the Aggregate Amount in Row (9) Excludes ..

10.

Certain Shares (See Instructions)

Percent of Class Represented by Amount in Row (9)

11. **4.1%**

Type of Reporting Person (See Instructions)

12.

**PN (Limited Partnership)**



CUSIP No. **G0750W104**

**Item 1.**

(a) **Name of Issuer:** Axovant Sciences, Ltd. (the “Issuer”).

(b) **Address of the Issuer’s Principal Executive Offices:** Clarendon House, 2 Church Street, Hamilton HM 11, Bermuda.

**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:** Common stock (“Common Stock”)

(e) **CUSIP Number:** G0750W104

**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 – 5,000,000 shares

Peter Kolchinsky – 5,000,000 shares

RA Capital Healthcare Fund, L.P. – 4,113,552 shares

(b) Percent of Class:\*\*

RA Capital Management, LLC – 5.0%

Peter Kolchinsky – 5.0%

RA Capital Healthcare Fund, L.P. – 4.1%

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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 – 5,000,000 shares

Peter Kolchinsky – 5,000,000 shares

RA Capital Healthcare Fund, L.P. – 4,113,552 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 – 5,000,000 shares

Peter Kolchinsky – 5,000,000 shares

RA Capital Healthcare Fund, L.P. – 4,113,552 shares

\*\* RA Capital Management, LLC (“Capital”) is the general partner of RA Capital Healthcare Fund, L.P. (the “Fund”) and serves as investment adviser for a separately managed account (the “Account”). Peter Kolchinsky is the manager of Capital. Mr. Kolchinsky, Capital and the Fund are referred to herein collectively as the “Reporting Persons.” As the investment adviser to 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. As the manager of Capital, Mr. Kolchinsky 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 Rule 16a-1(a)(v), and Mr. Kolchinsky is a parent or control

person of Capital within the meaning of Rule 13d-1(b)(1)(ii)(G) and Rule 16a-1(a)(1)(vii). Capital and Mr. Kolchinsky disclaim beneficial ownership of the securities reported in this Schedule 13G Statement (the "Statement") other than for the purpose of determining their obligations under Section 13(d) of the Act, and neither the filing of the Statement nor the filing of this Amendment shall not be deemed an admission that either Capital or Mr. Kolchinsky is or was the beneficial owner of such securities for any other purpose.

**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 Acquired the Security Being Reported on By the Parent 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.

CUSIP No. **G0750W104**

**SIGNATURE**

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 16,  
2016

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