

ARCA biopharma, Inc.  
Form SC 13G/A  
February 14, 2018

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

**SCHEDULE 13G**

Under the Securities Exchange Act of 1934

**(Amendment No. 3)\***

ARCA biopharma, Inc.

(Name of Issuer)

**Common Stock, par value \$0.001 per share**

(Title of Class of Securities)

**00211Y407**

(CUSIP Number)

**December 31, 2017**

Edgar Filing: ARCA biopharma, Inc. - Form SC 13G/A

(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 ("**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. **00211Y407 13G**

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

**RA Capital  
Management,  
LLC**

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

3. SEC Use Only

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

Number of Shares Beneficially Owned by Each Reporting Person With	5. Sole Voting Power	<b>0 shares</b>
	6. Shared Voting Power	<b>324,490<sup>1</sup> shares</b>
	7. Sole Dispositive Power	<b>0 shares</b>
	8. Shared Dispositive Power	<b>324,490<sup>1</sup> shares</b>

9. Aggregate Amount Beneficially Owned by Each Reporting Person  
**324,490<sup>1</sup> shares**

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) ..

Percent of Class Represented by Amount in Row (9)  
11.  
**2.7%<sup>2</sup>**

Type of Reporting Person (See Instructions)

12.

**IA**

<sup>1</sup> The shares reported herein for the Reporting Person represent 324,490 shares of the Issuer's Common Stock the reporting person has the right to acquire through the exercise of warrants dated June 16, 2015 ("Warrant Shares").

<sup>2</sup> The percentage calculation assumes (i) 11,750,977 outstanding shares of Common Stock of the Issuer, based on the Issuer's Form 10-Q as filed with the Securities and Exchange Commission ("SEC") on November 9, 2017, plus (ii) 324,490 shares of the Issuer's Common Stock the reporting person has the right to acquire through the exercise of Warrant Shares.

CUSIP No. **00211Y407 13G**

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

**Peter Kolchinsky**

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

3. SEC Use Only

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

Number of	5. Sole Voting Power	<b>0 shares</b>
Shares	6. Shared Voting Power	<b>324,490<sup>1</sup> shares</b>
Beneficially	7. Sole Dispositive Power	<b>0 shares</b>
Owned by	8. Shared Dispositive Power	<b>324,490<sup>1</sup> shares</b>
Each Reporting		
Person With		

9. Aggregate Amount Beneficially Owned by Each Reporting Person  
**324,490<sup>1</sup> shares**

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) ..

Percent of Class Represented by Amount in Row (9)  
11.  
**2.7%<sup>2</sup>**

12. Type of Reporting Person (See Instructions)

**IN**

<sup>1</sup> The shares reported herein for the Reporting Person represent 324,490 shares of the Issuer's Common Stock the reporting person has the right to acquire through the exercise of warrants dated June 16, 2015 ("Warrant Shares").

<sup>2</sup> The percentage calculation assumes (i) 11,570,977 outstanding shares of Common Stock of the Issuer, based on the Issuer's Form 10-Q as filed with the Securities and Exchange Commission ("SEC") on November 14, 2016, plus (ii) 324,490 shares of the Issuer's Common Stock the reporting person has the right to acquire through the exercise of Warrant Shares.

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**Item 1.**

(a) **Name of Issuer:** ARCA biopharma, Inc. (the “Issuer”).

(b) **Address of the Issuer’s Principal Executive Offices:** 11080 CirclePoint Road, Suite 140, Westminster, CO 80020.

**Item 2.**

(a) **Name of Person Filing:** This joint statement on Schedule 13G is being filed by RA Capital Management, LLC (“Capital”) and Peter Kolchinsky. Capital and Mr. Kolchinsky are collectively referred to herein as the “Reporting Persons.” Capital is the general partner of the RA Capital Healthcare Fund, L.P. (the “Fund”) and serves as investment adviser for a separately managed account (the “Account”). Mr. Kolchinsky is the manager of Capital. 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 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 be deemed an admission that either Capital or Mr. Kolchinsky is or was the beneficial owner of such securities for any other purpose.

(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. Mr. Kolchinsky is a United States citizen.

(d) **Title and Class of Securities:** Common stock (“Common Stock”)

(e) **CUSIP Number:** 00211Y407

**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:

(e) RA Capital Management LLC is a registered investment adviser and is filing this statement in accordance with §240.13d-1(b)(1)(ii)(E);

(g) Peter Kolchinsky is a control person and is filing this statement in accordance with §240.13d-1(b)(1)(ii)(G).



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**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.

Amount Beneficially Owned:

- (a) See the response(s) to Item 9 on the attached cover page(s).

Percent of Class:

- (b) See the response(s) to Item 11 on the attached cover page(s).

(c) Number of shares as to which such person has:

sole power to vote or to direct the vote:

- (i) See the response(s) to Item 5 on the attached cover page(s).

shared power to vote or to direct the vote

- (ii) See the response(s) to Item 6 on the attached cover page(s).

sole power to dispose or to direct the disposition of

- (iii) See the response(s) to Item 7 on the attached cover page(s).

shared power to dispose or to direct the disposition of

- (iv) See the response(s) to Item 8 on the attached cover page(s).

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

If this statement is being filed to report the fact that as of the date hereof the Reporting Person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following x.

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

Not applicable.

**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.

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**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

<sup>1</sup> 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 June 25, 2015.

**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 14, 2018

RA CAPITAL MANAGEMENT, LLC

By: /s/ Rajeev Shah  
Rajeev Shah  
Authorized Signatory

PETER KOLCHINSKY

/s/ Peter Kolchinsky