

ARCA biopharma, Inc.
Form SC 13G/A
February 14, 2017

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No. 2)*

ARCA biopharma, Inc.

(Name of Issuer)

Common Stock, par value \$0.001 per share

(Title of Class of Securities)

00211Y407

(CUSIP Number)

December 31, 2016

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(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

<input type="checkbox"/>	Rule 13d-1(b)
<input checked="" type="checkbox"/>	Rule 13d-1(c)
<input type="checkbox"/>	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.

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

RA Capital Healthcare Fund, L.P.

2. Check the Appropriate Box if a 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 **0 shares**

Shares 6. Shared Voting Power **0 shares**

Beneficially 7. Sole Dispositive Power **0 shares**

Owned by

Each Reporting 8. Shared Dispositive Power **0 shares**

Person With

Aggregate Amount Beneficially Owned by Each Reporting Person

9. **0 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. **0.0%**

Type of Reporting Person (See Instructions)

12. **PN (Limited Partnership)**

CUSIP No. **00211Y407 13G**

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 statement on Schedule 13G is being filed by and RA Capital Healthcare Fund, L.P. (the “Fund”). The Fund is referred to herein as the “Reporting Person.”

(b) **Address of Principal Business Office:** The principal business office of the Reporting Person is c/o RA Capital Management, LLC, 20 Park Plaza, Suite 1200, Boston, MA 02116.

(c) **Citizenship:** The Fund is a Delaware limited partnership.

(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:

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

(b) Percent of Class:
See the response(s) to Item 11 on the attached cover page(s).

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

(i) sole power to vote or to direct the vote:
See the response(s) to Item 5 on the attached cover page(s).

CUSIP No. **00211Y407 13G**

(ii) shared power to vote or to direct the vote
See the response(s) to Item 6 on the attached cover page(s).

(iii) sole power to dispose or to direct the disposition of
See the response(s) to Item 7 on the attached cover page(s).

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

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.

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, 2017

RA CAPITAL HEALTHCARE FUND, L.P.

By: RA Capital Management, LLC

Its: General Partner

By: /s/ Rajeev Shah

Rajeev Shah

Authorized Signatory