ARCA biopharma, Inc.
Form 8-K
April 26, 2017

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): April 26, 2017 (April 26, 2017)

ARCA biopharma, Inc.

(Exact name of Registrant as Specified in Its Charter)

Delaware 000-22873 36-3855489 (State or Other Jurisdiction (IRS Employer

of Incorporation) (Commission File Number) Identification No.)

11080 CirclePoint Road, Suite 140, Westminster, CO 80020 (Address of Principal Executive Offices) (Zip Code)

Registrant's Telephone Number, Including Area Code: (720) 940-2200

Not Applicable

(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instructions A.2. below):

Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425) Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12) Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b)) Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c)) Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§ 230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§ 240.12b-2 of this chapter).

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Section 8 — Other Events

Item 8.01. Other Events.

On April 26, 2017, ARCA biopharma, Inc. ("ARCA") provided a GENETIC-AF clinical trial update. The press release is furnished as Exhibit 99.1 hereto, the contents of which are incorporated herein by reference.

Section 9 — Financial Statements and Exhibits

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits.

Exhibit

Number Description

99.1 Press Release titled "ARCA biopharma Announces 20th Patient Randomized into the GENETIC-AF

Seamless Design Phase 2B/3 Clinical Trial" dated April 26, 2017.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Dated: April 26, 2017

ARCA biopharma, Inc. (Registrant)

By: /s/ Christopher D. Ozeroff

Name: Christopher D.

Ozeroff

Title: SVP and General

Counsel

INDEX TO EXHIBITS

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