ARCA biopharma, Inc. Form 8-K August 18, 2014

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): August 18, 2014 (August 18, 2014)

ARCA biopharma, Inc.

(Exact Name of Registrant as Specified in Charter)

Delaware (State or Other Jurisdiction **000-22873** (Commission

36-3855489 (I.R.S. Employer

of Incorporation)

File Number)

Identification No.)

11080 CirclePoint Road, Suite 140, Westminster, CO 80020

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(Address of Principal Executive Offices) (Zip Code)

(720) 940-2200

(Registrant s telephone number, including area code)

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 Instruction 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))

Section 8 Other Events

Item 8.01. Other Events.

On August 18, 2014, ARCA biopharma, Inc. (ARCA) announced that the Company s Clinical Trial Application for Gencaro a pharmacologically unique beta-blocker and mild vasodilator being developed for atrial fibrillation, has been accepted by Health Canada. ARCA anticipates that clinical trial sites in Canada will be active in the fourth quarter of 2014. 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 Health Canada Acceptance of
	GENETIC-AF Clinical Trial Application dated August 18, 2014.

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: August 18, 2014

ARCA biopharma, Inc.

(Registrant)

By: /s/ Patrick M. Wheeler Name: Patrick M. Wheeler Title: Chief Financial Officer

INDEX TO EXHIBITS

Exhibit Number Description

99.1 Press Release titled ARCA biopharma Announces Health Canada Acceptance of

GENETIC-AF Clinical Trial Application dated August 18, 2014.