

ARCA biopharma, Inc.  
Form 8-K  
October 29, 2013

**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): October 29, 2013 (October 29, 2013)**

**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 October 29, 2013, ARCA biopharma, Inc. announced that it submitted an Investigational New Drug (IND) application to the U.S. Food and Drug Administration for the GENETIC-AF clinical trial of Gencaro (bucindolol hydrochloride), a pharmacologically unique beta-blocker and mild vasodilator being developed for atrial fibrillation, and has established the Data Safety Monitoring Board for GENETIC-AF. 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**

<b>Number</b>	<b>Description</b>
99.1	Press Release titled ARCA biopharma Announces IND Submission to U.S. FDA for Gencaro for the Treatment of Atrial Fibrillation dated October 29, 2013.

**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: October 29, 2013

**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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