

ARCA biopharma, Inc.  
Form 8-K  
March 26, 2012

**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): March 26, 2012

**ARCA biopharma, Inc.**

(Exact Name of Registrant as Specified in Charter)

Delaware  
(State or Other Jurisdiction

of Incorporation)

000-22873  
(Commission

File Number)

36-3855489  
(I.R.S. Employer

Identification No.)

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**8001 Arista Place, Suite 430, Broomfield, CO 80021**

**(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 March 26, 2012, ARCA biopharma, Inc. announced results of analyses of atrial fibrillation data from the BEST trial, a previously conducted Phase 3 heart failure trial involving Gencaro (bucindolol hydrochloride), in 2,708 advanced heart failure patients. 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.

| <b>Exhibit Number</b> | <b>Description</b>   |
|-----------------------|--|
| 99.1                  | Press Release titled Gencar <sup>TM</sup> 's Norepinephrine Lowering Likely Contributes To Its Effect In Atrial Fibrillation Prevention, dated March 26, 2012. |

**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: March 26, 2012

**ARCA biopharma, Inc.**

(Registrant)

By: /s/ Patrick M. Wheeler

Name: Patrick M. Wheeler

Title: Chief Financial Officer

**INDEX TO EXHIBITS**

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