

ARCA biopharma, Inc.  
Form 8-K  
December 30, 2011

**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): December 30, 2011 (December 30, 2011)**

**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 December 30, 2011, ARCA issued a press release announcing that the U.S. Patent and Trademark Office has issued a patent on methods for treating patients with bucindolol based on genetic targeting. A copy of the press release is attached hereto as Exhibit 99.1 and 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 Additional Patent Issued for Methods for Treatment with Bucindolol Based on Genetic Targeting, dated December 30, 2011.
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**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: December 30, 2011

**ARCA biopharma, Inc.**

(Registrant)

By: /s/ Michael R. Bristow

Name: Michael R. Bristow

Title: President and Chief Executive Officer

**INDEX TO EXHIBITS**

**Exhibit Number**

**Description**

99.1	Press Release titled ARCA biopharma Announces Additional Patent Issued for Methods for Treatment with Bucindolol Based on Genetic Targeting, dated December 30, 2011.
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