

ARCA biopharma, Inc.  
Form 8-K  
October 07, 2010

**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 7, 2010**

**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 200, 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))

**Item 8.01 Other Events**

On October 7, 2010, ARCA biopharma, Inc., or ARCA, issued a press release announcing that the European Patent Office has issued a patent on methods of treating heart failure patients with bucindolol based on genetic targeting. The press release is attached as Exhibit 99.1 hereto, the contents of which are incorporated herein by reference.

**Item 9.01 Financial Statements and Exhibits**

(d) Exhibits

<b>Exhibit No.</b>	<b>Description</b>
99.1	Press Release titled ARCA biopharma announces European patent issued for treating heart failure patients with bucindolol based on genetic targeting , dated October 7, 2010.

**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 7, 2010

**ARCA biopharma, Inc.**  
(Registrant)

By: /s/ Michael R. Bristow  
Name: Michael R. Bristow  
Title: President and Chief Executive Officer

**EXHIBIT INDEX**

<b>Exhibit No.</b>	<b>Description</b>
99.1	Press Release titled "ARCA biopharma announces European patent issued for treating heart failure patients with bucindolol based on genetic targeting", dated October 7, 2010.