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

000-22873 (Commission 36-3855489 (I.R.S. Employer

of Incorporation) File Number) 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

Description Exhibit No.

Press Release titled ARCA biopharma announces European patent issued for treating heart failure patients with bucindolol 99.1

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

Exhibit No. Description

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.