

ARCA biopharma, Inc.  
Form 8-K  
May 13, 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): May 13, 2010 (May 12, 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 May 13, 2010, ARCA biopharma, Inc. issued a press release announcing that it received notification from the NASDAQ Stock Market that the Company has demonstrated compliance with the minimum stockholders' equity requirement for the NASDAQ Global Market set forth in Listing Rule 5450(b)(1)(A) and that the Company is in compliance with all applicable requirements for continued listing on the NASDAQ Global Market. 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 Regains NASDAQ Listing Compliance", dated May 13, 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: May 13, 2010

**ARCA biopharma, Inc.**

(Registrant)

By: /s/ Patrick M. Wheeler

Name: Patrick M. Wheeler

Title: Acting Chief Financial Officer

**EXHIBIT INDEX**

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