

Edgar Filing: ARCA biopharma, Inc. - Form SC 13G

ARCA biopharma, Inc.  
Form SC 13G  
February 10, 2010

UNITED STATES SECURITIES AND  
EXCHANGE COMMISSION  
Washington, D.C. 20549

Schedule 13G  
(RULE 13d-102)

Under the Securities Exchange Act of 1934  
(Amendment No. )\*

Information to be included in statements filed  
pursuant to Rule 13d-1 (b) (c) and (d) and Amendments thereto  
filed pursuant to Rule 13d-2 (b).

Arca Biopharma, Inc.  
(Name of Issuer)

Common Stock  
(Title of Class of Securities)

00211Y100  
(CUSIP Number)

December 31, 2009  
(Date of Event which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant  
to which this Schedule is filed:

Rule 13d-1 (b)  
 Rule 13d-1 (c)  
 Rule 13d-1 (d)

\*The remainder of this cover page shall be filled out for a  
reporting person's initial filing on this form with respect to the  
subject class of securities, and for any subsequent amendment  
containing information which would alter the disclosures provided  
in a prior cover page.

The information required in the remainder of this cover page shall  
not be deemed to be "filed" for the purpose of Section 18 of the Securities  
Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of  
that section of the Act but shall be subject to all other provisions of  
the Act (however, see the Notes).

SCHEDULE 13G

Issuer: Arca Biopharma, Inc.

CUSIP No.: 00211Y100

1 NAMES OF REPORTING PERSONS I.R.S.  
IDENTIFICATION NOS. OF ABOVE PERSONS

First Eagle Investment Management, LLC  
Tax ID # 57-1156902

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2 CHECK THE APPROPRIATE BOX IF A MEMBER  
OF A GROUP  
(a)  
(b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION  
State of Delaware

NUMBER OF SHARES	5	SOLE VOTING POWER - 412,321
BENEFICIALLY	6	SHARED VOTING POWER - 0
OWNED BY EACH	7	SOLE DISPOSITIVE POWER - 412,321
REPORTING PERSON	8	SHARED DISPOSITIVE POWER - 0

WITH:

9 AGGREGATE AMOUNT BENEFICIALLY OWNED  
BY EACH REPORTING PERSON  
  
412,321

10 CHECK IF THE AGGREGATE AMOUNT IN  
ROW (11) EXCLUDES CERTAIN SHARES  
  
N/A

11 PERCENT OF CLASS REPRESENTED BY AMOUNT  
IN ROW 9:  
  
5.42%

12 TYPE OF REPORTING PERSON  
  
IA

SCHEDULE 13G

Issuer: Arca Biopharma, Inc.

CUSIP No.: 00211Y100

ITEM 1

(a) Name of Issuer:  
Arca Biopharma, Inc.

(b) Address of Issuer's Principal Executive Offices:  
  
8001 Arista Place, Suite 200, Broomfield, CO 80021

ITEM 2

(a) Name of Person Filing: First Eagle Investment Management, LLC

(b) Address of Principal Business Office:  
  
1345 Avenue of the Americas  
New York, NY 10105

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- (c) Citizenship: Delaware, USA (Place of Incorporation)
- (d) Title of Class of Securities: Common Stock
- (e) CUSIP Number:

SCHEDULE 13G

Issuer: Arca Biopharma, Inc.

CUSIP No.: 00211Y100

ITEM 3

If this statement is filed pursuant to Sections 240.13d-1(b), or 240.13d-2(b) or (c), check whether the person filing is a:

- (a)  Broker or dealer registered under Section 15 of the Act (15 U.S.C. 78o);
- (b)  Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);
- (c)  Insurance Company as defined in section 3(a)(19) of the Act (15 U.S.C. 78C);
- (d)  Investment company registered under Section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8);
- (e)  An investment adviser in accordance with Section 240.13d-1(b)(1)(ii)(E);
- (f)  An employee benefit plan or endowment fund in accordance with Section 240.13d-1(b)(1)(ii)(F);
- (g)  A parent holding company or control person in accordance with Section 240.13d-1(b)(1)(ii)(G);
- (h)  A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i)  A church plan that is excluded from the definition of an insurance company under Section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (j)  Group, in accordance with section 240.13d-1(b)(1)(ii)(J).

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ITEM 4. Ownership.

ITEM 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following: [ ]

ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON

First Eagle Investment Management, LLC (FEIM), an investment adviser registered under Section 203 of the Investment Advisers Act of 1940, is deemed to be the beneficial owner of 412,321 shares, or 5.42% of the Common Stock believed to be outstanding as a result of acting as investment advisor to various clients. Clients of FEIM have the right to receive and the ultimate power to direct the receipt of dividends from, or the proceeds of the sale of, such securities.

ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY OR CONTROL PERSON.

N/A

ITEM 8. Identification and Classification of Members of the Group.

N/A

ITEM 9. Notice of Dissolution of Group

N/A

SCHEDULE 13G

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CUSIP No.: 00211Y100

ITEM 10. Certification

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of such securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

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After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 10, 2010

Signature: /s/ Mark Goldstein

Name/Title: Mark Goldstein, Senior Vice President