FREYTAG J WILLIAM

Form 4

February 09, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

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Expires:

January 31, 2005

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obligations

may continue.

See Instruction

Check this box

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * FREYTAG J WILLIAM

2. Issuer Name and Ticker or Trading Symbol

ARCA biopharma, Inc. [ABIO]

5. Relationship of Reporting Person(s) to

(Check all applicable)

Issuer

(First) (Last)

(Middle)

3. Date of Earliest Transaction

X Director

10% Owner

7169 WATERFORD COURT

02/05/2010

(Month/Day/Year)

below) 6. Individual or Joint/Group Filing(Check

Officer (give title Other (specify

(Street)

4. If Amendment, Date Original Filed(Month/Day/Year)

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

(Instr. 4)

Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

NIWOT, CO 80503

(City)

1.Title of

Security

(Instr. 3)

(State) (Zip)

2. Transaction Date 2A. Deemed 4. Securities (Month/Day/Year) Execution Date, if TransactionAcquired (A) or Code Disposed of (D)

(Instr. 8)

5. Amount of Securities Beneficially Owned

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial Ownership

Following Reported (A) Transaction(s)

or (Instr. 3 and 4)

Code V Amount (D) Price

(Instr. 3, 4 and 5)

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

(Month/Day/Year)

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SEC 1474 (9-02)

(Instr. 4)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of 3. Transaction Date 3A. Deemed Derivative Conversion (Month/Day/Year) Execution Date, if Security or Exercise (Instr. 3) Price of (Month/Day/Year)

5. Number 4. Transaction of Derivative Code Securities (Instr. 8) Acquired

6. Date Exercisable and **Expiration Date** (Month/Day/Year)

7. Title and Amount of 8. **Underlying Securities** (Instr. 3 and 4)

Se

 (I_1)

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	Derivative Security				(A) or Disposed (D) (Instr. 3, and 5)					
			Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Option to Purchase Common Stock	\$ 2.73	02/05/2010	A		3,500		<u>(1)</u>	02/05/2020	Common Stock	3,500

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
FREYTAG J WILLIAM 7169 WATERFORD COURT NIWOT, CO 80503	X						

Signatures

Patrick Wheeler, attorney o2/09/2010 in fact

**Signature of Reporting Person Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) The options vest ratably on a monthly basis over a one year period; full acceleration upon change in control and termination of service.

 Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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