Ozeroff Christopher David Form 4 February 22, 2010

FORM 4

OMB APPROVAL

OT LIVE T	UNITED STATES SECURITIES AND EXCHANGE COMMISSION
	Washington, D.C. 20549
Check this box	

OMB 3235-0287 Number:

if no longer subject to Section 16. Form 4 or

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

2005 Estimated average burden hours per 0.5

January 31,

Form 5 obligations may continue.

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

response...

Expires:

See Instruction 1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person *

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to Issuer

Ozeroff Christopher David

ARCA biopharma, Inc. [ABIO]

(Check all applicable)

(Last)

(First) (Middle) 3. Date of Earliest Transaction

Director 10% Owner X_ Officer (give title Other (specify

C/O ARCA BIOPHARMA, INC., 8001 ARISTA PLACE, SUITE

(Street)

02/18/2010

(Month/Day/Year)

SVP & GENERAL COUNSEL

200

Security

(Instr. 3)

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check Applicable Line)

Filed(Month/Day/Year)

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

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

below)

BROOMFIELD, CO 80021

(State) (Zip) (City) 1. Title of 2. Transaction Date 2A. Deemed

3. 4. Securities (Month/Day/Year) Execution Date, if TransactionAcquired (A) or Code Disposed of (D) (Instr. 3, 4 and 5) (Month/Day/Year) (Instr. 8)

5. Amount of 6. Ownership Securities Form: Direct Beneficially (D) or Indirect Beneficial Owned (I) Following

Reported Transaction(s)

(Instr. 3 and 4) Code V Amount (D) Price

(A)

or

(Instr. 4) (Instr. 4)

7. Nature of

Ownership

Indirect

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

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

3. Transaction Date 3A. Deemed 1. Title of Derivative Conversion

6. Date Exercisable and 5. Number (Month/Day/Year) Execution Date, if Transaction of Derivative Expiration Date

7. Title and Amount of 8. Underlying Securities

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Security (Instr. 3)	or Exercise Price of Derivative Security		any (Month/Day/Year)	Code (Instr. 8)	Securities (Month/Da Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		(Month/Day/	//Year) (Instr. 3 a		4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Option to Purchase Common Stock	\$ 2.97	02/18/2010		A	6,400		<u>(1)</u>	02/18/2020	Common Stock	6,400	

Reporting Owners

Reporting Owner Name / Address	Relationships							
• 8	Director	10% Owner	Officer	Other				
Ozeroff Christopher David			SVP &					
C/O ARCA BIOPHARMA, INC.			GENERAL					
8001 ARISTA PLACE, SUITE 200			·					
BROOMFIELD, CO 80021			COUNSEL					

Signatures

Patrick Wheeler, attorney in fact 02/22/2010

**Signature of Reporting Person Da

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).
- The options vest in equal monthly installments over a three year period from the date of grant. In the event of a change in control of the Company, 50% of the unvested options shall become fully and immediately vested upon the closing date of such change in control, provided, however, that on the earlier of (i) the one-year anniversary of the closing date or (ii) involuntary termination, any options that remain unvested on such earlier date shall become fully and immediately vested.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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