

Fidler Josh E
 Form 4
 April 08, 2009

FORM 4

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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

(Print or Type Responses)

1. Name and Address of Reporting Person *
**BOULDER VENTURES IV
 ANNEX LP**

(Last) (First) (Middle)

1900 NINTH STREET, STE 200

(Street)

BOULDER, CO 80302

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol
ARCA biopharma, Inc. [ABIO]

3. Date of Earliest Transaction
 (Month/Day/Year)
04/06/2009

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

___ Director ___X___ 10% Owner
 ___ Officer (give title below) ___ Other (specify below)

6. Individual or Joint/Group Filing(Check Applicable Line)
 ___ Form filed by One Reporting Person
 ___X___ Form filed by More than One Reporting Person

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

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
			Code	V Amount (D) Price			
Common Stock	04/06/2009	04/06/2009	J ⁽³⁾	49,708 D \$ 0	675,403	D	
Common Stock	04/06/2009	04/06/2009	J ⁽⁴⁾	3,292 D \$ 0	44,715	I	By Boulder Ventures IV, L.P. ⁽²⁾
Common Stock	04/06/2009	04/06/2009	J ⁽³⁾	518 A \$ 0	518	I	By BV Partners IV, LLC ⁽¹⁾
Common Stock	04/06/2009	04/06/2009	J ⁽⁴⁾	31 A \$ 0	549	I	By BV Partners IV, LLC ⁽²⁾

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

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(9-02)

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

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Owned Following Transaction (Instr. 5)
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Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
BOULDER VENTURES IV ANNEX LP 1900 NINTH STREET, STE 200 BOULDER, CO 80302		X		
BOULDER VENTURES IV LP 1900 NINTH STREET, STE 200 BOULDER, CO 80302		X		
BV PARTNERS IV, L.L.C. 1900 NINTH STREET, STE 200 BOULDER, CO 80302		X		
Fidler Josh E 1900 NINTH STREET, STE 200 BOULDER, CO 80302		X		
JONES ANDREW E 1900 NINTH STREET, STE 200 BOULDER, CO 80302		X		
LEFKOFF KYLE 1900 NINTH STREET, STE 200 BOULDER, CO 80302		X		

Macks Lawrence M
 1900 NINTH STREET, STE 200 X
 BOULDER, CO 80302

Roshko Peter
 1900 NINTH STREET, STE 200 X
 BOULDER, CO 80302

Signatures

BOULDER VENTURES IV (ANNEX), L.P. By: BV Partners IV, L.L.C., its General Partner 04/08/2009
 By: /s/ Kyle Lefkoff, Managing Member

__Signature of Reporting Person Date

BOULDER VENTURES IV, L.P. By: BV Partners IV, L.L.C., its General Partner By:/s/ 04/08/2009
 Kyle Lefkoff, Managing Member

__Signature of Reporting Person Date

BV PARTNERS IV, L.L.C. By:/s/ Kyle Lefkoff, Managing Member 04/08/2009

__Signature of Reporting Person Date

/s/ Josh E. Fidler 04/08/2009

__Signature of Reporting Person Date

/s/ Andrew E. Jones 04/08/2009

__Signature of Reporting Person Date

/s/ Kyle Lefkoff 04/08/2009

__Signature of Reporting Person Date

/s/ Lawrence M. Macks 04/08/2009

__Signature of Reporting Person Date

/s/ Peter Roshko 04/08/2009

__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).

The shares are owned by Boulder Ventures IV (Annex), L.P. ("BV IV Annex") which is under common control with Boulder Ventures IV, L.P. ("BV IV LP"). BV Partners IV, L.L.C. ("BV IV LLC") serves as the sole General Partner of BV IV Annex, and has sole voting and investment control over the respective shares owned by BV IV Annex, and may be deemed to own beneficially the shares held by

(1) BV IV Annex. Josh E. Fidler ("Fidler"), Andrew E. Jones ("Jones"), Kyle Lefkoff ("Lefkoff"), Lawrence M. Macks ("Macks") and Peter Roshko ("Roshko") are Managing Members of BV IV LLC and share voting and dispositive power over the shares held by BV IV Annex and BV IV LP. Each of these individuals disclaims beneficial ownership of the shares reported herein, except to the extent of his respective pecuniary interest therein.

The shares are owned by BV IV LP which is under common control with Boulder IV Annex. BV IV LLC serves as the sole General Partner, and has sole voting and investment control over the respective shares owned by BV IV LP, and may be deemed to own

(2) beneficially the shares held by BV IV LP. Fidler, Jones, Lefkoff, Macks and Roshko are Managing Members of BV IV LLC and share voting and dispositive power over the shares held by BV IV LP. Each of these individuals disclaims beneficial ownership of the shares reported herein, except to the extent of his respective pecuniary interest therein.

(3) Represents a pro rata in-kind distribution by BV IV Annex without consideration to its limited and general partners in accordance with the terms of its Limited Partnership Agreement. Includes 518 shares distributed to BV IV LLC, its general partner.

(4) Represents a pro rata in-kind distribution by BV IV LP without consideration to its limited and general partners in accordance with the terms of its Limited Partnership Agreement. Includes 31 shares distributed to BV IV LLC, its general partner.

Remarks:

This report is being filed jointly by Boulder Ventures IV (Annex), L.P., Boulder Ventures IV, L.P., BV Partners IV, L.L.C., J Fidler, Andrew E. Jones, Kyle Lefkoff, Lawrence M. Macks and Peter Roshko as of the date hereof and relates to the same transaction. Exhibit 99.1 Joint Filer Information

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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