

Fidler Josh E  
 Form 3  
 February 05, 2009

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL  
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**INITIAL STATEMENT OF 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 *			2. Date of Event Requiring Statement	3. Issuer Name and Ticker or Trading Symbol	
Â BOULDER VENTURES IV ANNEX LP			(Month/Day/Year)	ARCA biopharma, Inc. [ABIO]	
(Last)	(First)	(Middle)		4. Relationship of Reporting Person(s) to Issuer	5. If Amendment, Date Original Filed(Month/Day/Year)
1900 NINTH STREET, STE 200				(Check all applicable)	
(Street)				___ Director	___X___ 10% Owner
BOULDER,Â COÂ 80302				___ Officer	___ Other
(City)	(State)	(Zip)		(give title below)	(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 Beneficially Owned**

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	725,111	D <sup>(1)</sup>	Â
Common Stock	48,007	I	By Boulder Ventures IV, L.P. <sup>(2)</sup>

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly. SEC 1473 (7-02)

**Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.**

**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)	3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)	4. Conversion or Exercise Price of	5. Ownership Form of Derivative	6. Nature of Indirect Beneficial Ownership (Instr. 5)
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	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Derivative Security	Security: Direct (D) or Indirect (I) (Instr. 5)	
Warrant (right to buy)	Â (3)	10/10/2013	Common Stock	28,651	\$ 9.7406	D (1)	Â
Warrant (right to buy)	Â (3)	10/10/2013	Common Stock	1,897	\$ 9.7406	I	By Boulder Ventures IV, L.P. (2)

## Reporting Owners

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

## Signatures

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

02/05/2009

\*\*Signature of Reporting Person

Date

02/05/2009

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

	**Signature of Reporting Person	Date
BV PARTNERS IV, L.L.C. By:/s/ Kyle Lefkoff, Managing Member		02/05/2009
	**Signature of Reporting Person	Date
/s/ Josh E. Fidler		02/05/2009
	**Signature of Reporting Person	Date
/s/ Andrew E. Jones		02/05/2009
	**Signature of Reporting Person	Date
/s/ Kyle Lefkoff		02/05/2009
	**Signature of Reporting Person	Date
/s/ Lawrence M. Macks		02/05/2009
	**Signature of Reporting Person	Date
/s/ Peter Roshko		02/05/2009
	**Signature of Reporting Person	Date

### Explanation of Responses:

- \* If the form is filed by more than one reporting person, see Instruction 5(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. BV IV LLC however owns no securities of the Issuer directly. 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 beneficially the shares held by BV IV LP. BV IV LLC however owns no securities of the Issuer directly. 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.

(2)

(3) Immediately exercisable.

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**Remarks:**  
 This report is being filed jointly by Boulder Ventures IV (Annex), L.P., Boulder Ventures IV, L.P., Fidler, Andrew E. Jones, Kyle Lefkoff, Lawrence M. Macks and Peter Roshko as of the date here 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. 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.