

ARCA biopharma, Inc.
 Form 3
 June 17, 2015

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	
Growth Equity Opportunities IV, LLC			(Month/Day/Year)	ARCA biopharma, Inc. [ABIO]	
(Last)	(First)	(Middle)	06/16/2015		
1954 GREENSPRING DRIVE, SUITE 600			4. Relationship of Reporting Person(s) to Issuer		
(Street)			(Check all applicable)		
TIMONIUM, MD 21093			<input type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input type="checkbox"/> Officer <input type="checkbox"/> Other (give title below) (specify below)		
(City)	(State)	(Zip)	5. If Amendment, Date Original Filed(Month/Day/Year)		
			6. Individual or Joint/Group Filing(Check Applicable Line)		
			<input type="checkbox"/> Form filed by One Reporting Person		
			<input checked="" type="checkbox"/> 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	10,221,465	D <u>(1)</u> <u>(2)</u>	

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 Derivative	5. Ownership Form of Derivative Security:	6. Nature of Indirect Beneficial Ownership (Instr. 5)
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	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Security	Direct (D) or Indirect (I) (Instr. 5)
Warrants (Right to Buy)	12/13/2015	06/16/2022	Common Stock	4,088,586	\$ 0.8716	D <u>(1)</u> <u>(2)</u> <input type="checkbox"/>

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Growth Equity Opportunities IV, LLC 1954 GREENSPRING DRIVE, SUITE 600 TIMONIUM, MD 21093	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
New Enterprise Associates 15, L.P. 1954 GREENSPRING DRIVE, SUITE 600 TIMONIUM, MD 21093	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NEA Partners 15, L.P. 1954 GREENSPRING DRIVE, SUITE 600 TIMONIUM, MD 21093	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NEA 15 GP, LLC 1954 GREENSPRING DRIVE, SUITE 600 TIMONIUM, MD 21093	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Signatures

/s/ Sasha Keough,
attorney-in-fact

06/17/2015

__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).

(1) The shares are directly held by Growth Equity Opportunities Fund IV, LLC ("GEO IV") and indirectly held by New Enterprise Associates 15, L.P. ("NEA 15"), the sole member of GEO IV, NEA Partners 15, L.P. ("NEA Partners 15"), the sole general partner of NEA 15, NEA 15 GP, LLC ("NEA 15 GP"), the sole general partner of NEA Partners 15, and the individual managers of NEA 15 GP (NEA 15, NEA Partners 15, NEA 15 GP and the individual managers of NEA 15 GP, together, the "Indirect Reporting Persons").

(2) The individual managers of NEA 15 GP are Peter J. Barris, Forest Baskett, Anthony A. Florence, Jr., Krishna "Kittu" Kolluri, Josh Makower, David M. Mott, Jon Sakoda, Scott D. Sandell, Peter W. Sonsini, Ravi Viswanathan and Harry R. Weller. The Indirect Reporting Persons disclaim beneficial ownership within the meaning of Section 16 of the Securities Exchange Act of 1934, as amended, or otherwise of such portion of the shares of the Issuer held by GEO IV in which the Indirect Reporting Persons have no pecuniary interest.

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.