

ARCA biopharma, Inc.
 Form 3
 February 21, 2017

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	
Å Hove Anders D		(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)
		02/16/2017		
11080 CIRCLEPOINT RD.,			(Check all applicable)	
SUITE 140			<input checked="" type="checkbox"/> Director	<input type="checkbox"/> 10% Owner
(Street)			<input type="checkbox"/> Officer	<input type="checkbox"/> Other
			(give title below)	(specify below)
WESTMINSTER, Å CO Å 80023			6. Individual or Joint/Group Filing(Check Applicable Line)	
(City)	(State)	(Zip)	<input checked="" type="checkbox"/> Form filed by One Reporting Person	
			<input 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	767,660	I	By Venrock Healthcare Capital Partners II, L.P. ⁽¹⁾
Common Stock	311,272	I	By VHCP Co-Investment Holdings II, LLC ⁽²⁾
Common Stock	390,912	I	By Venrock Healthcare Capital Partners, L.P. ⁽³⁾
Common Stock	71,487	I	By VHCP Co-Investment Holdings, LLC ⁽⁴⁾

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

SEC 1473 (7-02)

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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 Security	5. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
Common stock warrants (right to buy)	12/13/2015	06/16/2022	Common Stock	307,064	\$ 6.1012	I	By Venrock Healthcare Capital Partners II, L.P. ⁽¹⁾
Common stock warrants (right to buy)	12/13/2015	06/16/2022	Common Stock	124,508	\$ 6.1012	I	By VHCP Co-Investment Holdings II, LLC ⁽²⁾
Common stock warrants (right to buy)	12/13/2015	06/16/2022	Common Stock	156,365	\$ 6.1012	I	By Venrock Healthcare Capital Partners, L.P. ⁽³⁾
Common stock warrants (right to buy)	12/13/2015	06/16/2022	Common Stock	28,594	\$ 6.1012	I	By VHCP Co-Investment Holdings, LLC ⁽⁴⁾

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Hove Anders D 11080 CIRCLEPOINT RD., SUITE 140 WESTMINSTER, CO 80023	Â X	Â	Â	Â

Signatures

/s/ Brian L. Selby,
Attorney-in-Fact

02/21/2017

**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).

These securities are owned directly by Venrock Healthcare Capital Partners II, L.P. The Reporting Person has a pecuniary interest in

(1) Venrock Healthcare Capital Partners II, L.P. The Reporting Person holds no voting or investment interest in these securities, and disclaims beneficial ownership of such shares except to the extent of his pro rata partnership interest therein.

These securities are owned directly by VHCP Co-Investment Holdings II, LLC. The Reporting Person has a pecuniary interest in VHCP

(2) Co-Investment Holdings II, LLC. The Reporting Person holds no voting or investment interest in these securities, and disclaims beneficial ownership of such shares except to the extent of his pro rata partnership interest therein.

(3)

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These securities are owned directly by Venrock Healthcare Capital Partners, L.P. The Reporting Person has a pecuniary interest in Venrock Healthcare Capital Partners, L.P. The Reporting Person holds no voting or investment interest in these securities, and disclaims beneficial ownership of such shares except to the extent of his pro rata partnership interest therein.

- (4) These securities are owned directly by VHCP Co-Investment Holdings, LLC. The Reporting Person has a pecuniary interest in VHCP Co-Investment Holdings, LLC. The Reporting Person holds no voting or investment interest in these securities, and disclaims beneficial ownership of such shares except to the extent of his pro rata partnership interest therein.

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Remarks:

ExhibitÂ 24-Â PowerÂ ofÂ Attorney

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.