

Grais Linda S
 Form 4
 March 30, 2010

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 *
 Grais Linda S

(Last) (First) (Middle)

C/O INTERWEST PARTNERS, 2710 SAND HILL ROAD SECOND FLOOR

(Street)

MENLO PARK, CA 94025

(City) (State) (Zip)

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

3. Date of Earliest Transaction (Month/Day/Year)
 03/29/2010

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

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

Form filed by One Reporting Person
 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 Indirect Beneficial Ownership (Instr. 4)			
			Code	V	Amount or Price (A) or (D)					
Common Stock	03/29/2010		S		23,600 (1)	D	\$ 7.98 (1)	679,098	I	By Partnership (3)
Common Stock	03/29/2010		S		187,209 (2)	D	\$ 7.3 (2)	491,889	I	by Partnership (3)

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

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number.

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. Nu
						Date Exercisable	Expiration Date	Title	Amount or Number of Shares
						Code	V	(A)	(D)

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

Grais Linda S
C/O INTERWEST PARTNERS
2710 SAND HILL ROAD SECOND FLOOR
MENLO PARK, CA 94025

X

Signatures

/s/ Linda S.
Grais

03/30/2010

**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).

(1) The shares were sold at prices between \$7.90 and \$8.21 per share, resulting in an average price of \$7.98 per share. Upon request, the reporting person will provide to the SEC, the issuer or security holder of the issuer, full information regarding the number of shares sold at each price.

(2) The shares were sold at prices between \$6.90 and \$7.89 per share, resulting in an average price of \$7.30 per share. Upon request, the Reporting Person will provide to the SEC, the issuer or security holder of the issuer, full information regarding the number of shares sold at each price.

(3) These shares are owned directly by InterWest Partners IX, LP. Ms. Grais, one of ARCA's directors, is a venture member of InterWest Management Partners IX, LLC, the general partner of InterWest Partners IX, LP. Ms. Grais has shared voting and dispositive powers over the shares held by InterWest Partners IX, LP, and disclaims beneficial ownership of such shares except to the extent of her pro rata partnership interest therein.

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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