FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

| OMB APPROVAL | | | | | | | | | |
|---------------------|----------|--|--|--|--|--|--|--|--|
| OMB Number: | 3235-028 | | | | | | | | |
| Estimated average h | urden | | | | | | | | |

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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

37 0.5 hours per response:

or Section 30(h) of the Investment Company Act of 1940 5. Relationship of Reporting Person(s) to Issuer 1. Name and Address of Reporting Person 2. Issuer Name and Ticker or Trading Symbol (Check all applicable) BIOCRYST PHARMACEUTICALS INC Mills Mike Director 10% Owner BCRX] Officer (give title Other (specify below) below) (Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) **Principal Accounting Officer** 2190 PARKWAY LAKE DR 02/10/2010 4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) (Street) BIRMINGHAM AL 35244 Form filed by One Reporting Person Form filed by More than One Reporting Person (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 1. Title of Security (Instr. 3) 2. Transaction 2A. Deemed 5. Amount of 6. Ownership 7. Nature Transaction Execution Date. Securities Form: Direct of Indirect if any Code (Instr. 8) (D) or Indirect (I) (Instr. 4) (Month/Day/Year) 5) Beneficially Beneficial (Month/Day/Year) Owned Following Ownership Reported (Instr. 4) (A) or (D) Transaction(s) Code Amount Price (Instr. 3 and 4) Common Stock 02/10/2010 M 4,000 Α \$4.34 4,000 D

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

M

S

1,146

5,146

Α

D

\$3.26

\$7.05(1)

5,146

0

D

D

| | (c.g., puts, variants, options, convertible securities) | | | | | | | | | | | | | | |
|---|---|---|--|---|---|---|-------|--|--------------------|--|--|---|-------|--|--|
| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | onversion Date Execution Date, Ferrorise (Month/Day/Year) Execution Date, if any (Month/Day/Year) (Month/Day/Year) Execution Date, if any (Month/Day/Year) if any (Month/Day/Year) if any if | | 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 Securities Underlying Derivative Security (Instr. 3 and 4) | | 8. Price of Derivative Security (Instr. 5) | | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
| | | | | Code | v | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | | | | |
| Emp. Stock Option (Right to Buy) | \$4.34 | 02/10/2010 | | M | | | 4,000 | 06/15/2006 | 06/15/2015 | Common Stock | 4,000 | \$0 | 0 | D | |
| Emp. Stock Option (Right to Buy) | \$3.26 | 02/10/2010 | | М | | | 1,146 | 03/14/2009 | 03/14/2018 | Common Stock | 1,146 | \$0 | 3,129 | D | |

Explanation of Responses:

Common Stock

Common Stock

1. The price in column 4 is a weighted average price. The prices actually ranged from \$7.04 to \$7.07. The reporting person will provide to the issuer, any security holder of the issuer, or the SEC staff, upon request, full information regarding the number of shares purchased at each price within the range for all transactions reported in this Form 4 utilizing an average weighted price.

> /s/ Michael Richardson, by power of attorney

02/11/2010

** Signature of Reporting Person

Date

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

- * 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).

02/10/2010

02/10/2010

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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 Number.