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

**FORM 8-K**

**CURRENT REPORT**

**Pursuant to Section 13 OR 15(d) of The Securities Exchange Act of 1934**

**Date of Report (Date of earliest event reported): September 11, 2007**

**BioCryst Pharmaceuticals, Inc.**

(Exact name of registrant as specified in its charter)

**Delaware**

(State or other Jurisdiction of  
Incorporation)

**000-23186**

(Commission File Number)

**62-1413174**

(IRS Employer Identification No.)

**2190 Parkway Lake Drive, Birmingham, Alabama**

(Address of Principal Executive Offices)

**35244**

(Zip Code)

Registrant's telephone number, including area code: **(205) 444-4600**

(Former name or former address if changed since last report.)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
  - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
  - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
  - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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**Item 5.02 Departure of Directors or Certain Officers; Election of Directors; Appointment of Certain Officers; Compensatory Arrangements of Certain Officers.**

On September 11, 2007, Randall B. Riggs, the Senior Vice President, Business Development of BioCryst Pharmaceuticals, Inc. (the “Company”), tendered his resignation from employment with the Company, effective October 12, 2007.

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**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Dated: September 17, 2007

**BioCryst Pharmaceuticals, Inc.**

By: \_\_\_\_\_ /s/ Michael A. Darwin  
Michael A. Darwin  
Vice President Finance