

BIOCRYSST PHARMACEUTICALS INC

FORM 10-K (Annual Report)

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

Form 10-K

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2013

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934.

For the transition period from to .

Commission File Number 000-23186

BIOCRYS T PHARMACEUTICALS, INC.

(Exact name of registrant as specified in its charter)

DELAWARE
(State of other jurisdiction of
incorporation or organization)

62-1413174
(I.R.S. employer
identification no.)

4505 Emperor Blvd., Suite 200, Durham, North Carolina 27703
(Address of principal executive offices)

(919) 859-1302
(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

Title of Each Class
Common Stock, \$.01 Par Value

Name of Each Exchange on Which Registered
The NASDAQ Global Select Market

Securities registered pursuant to Section 12(g) of the Act:

Title of class
None

Indicate by a check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by a check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No

Indicate by a check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by a check mark whether the registrant submitted electronically and posted on its corporate Website, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (Section 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (Section 229.405 of this chapter) is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer Accelerated filer
Non-accelerated filer (Do not check if a smaller reporting company) Smaller reporting company

Indicate by a check mark whether the registrant is a shell company (as defined in Exchange Act Rule 12b-2). Yes No

The Registrant estimates that the aggregate market value of the Common Stock on June 30, 2013 (based upon the closing price shown on the NASDAQ Global Select Market on June 30, 2013) held by non-affiliates was \$83,060,095.

The number of shares of Common Stock, par value \$.01, of the Registrant outstanding as of January 31, 2014 was 59,384,525 shares.

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Registrant's definitive Proxy Statement to be filed in connection with the solicitation of proxies for its 2014 Annual Meeting of Stockholders are incorporated by reference into Items 10, 11, 12, 13 and 14 under Part III hereof.

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PART I

ITEM 1. BUSINESS

Forward-Looking Statements

This report includes forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended, which are subject to the “safe harbor” created in Section 21E. In particular, statements about our expectations, beliefs, plans, objectives or assumptions of future events or performance are contained or incorporated by reference in this report. All statements other than statements of historical facts contained herein are forward-looking statements. We have based these forward-looking statements on our current expectations about future events. While we believe these expectations are reasonable, forward-looking statements are inherently subject to risks and uncertainties, many of which are beyond our control. Our actual results may differ materially from those suggested by these forward-looking statements for various reasons; including those discussed in this report under the heading “Risk Factors.” Given these risks and uncertainties, you are cautioned not to place undue reliance on our forward-looking statements. The forward-looking statements included in this report are made only as of the date hereof. We do not undertake, and specifically decline, any obligation to update any of these statements or to publicly announce the results of any revisions to any forward-looking statements to reflect future events or developments. When used in the report, unless otherwise indicated, “we,” “our,” “us,” the “Company” and “BioCryst” refer to BioCryst Pharmaceuticals, Inc.

Our Business

We are a biotechnology company that designs, optimizes and develops novel drugs that block key enzymes involved in the pathogenesis of diseases. We focus on rare and infectious diseases in which unmet medical needs exist and that are aligned with our capabilities and expertise. We integrate the disciplines of biology, crystallography, medicinal chemistry and computer modeling to discover and develop small molecule pharmaceuticals through the process known as structure-guided drug design. Structure-guided drug design is a drug discovery approach by which we design synthetic compounds from detailed structural knowledge of the active sites of enzyme targets associated with particular diseases. We use X-ray crystallography, computer modeling of molecular structures and advanced chemistry techniques to focus on the three-dimensional molecular structure and active site characteristics of the enzymes that control cellular biology. Enzymes are proteins that act as catalysts for many vital biological reactions. Our goal generally is to design a compound that will fit in the active site of an enzyme and thereby prevent its catalytic activity. Molecules in development by us and our partners are summarized in the table below:

<u>Drug/Drug Candidate</u>	<u>Drug Class</u>	<u>Therapeutic Area(s)</u>	<u>Phase</u>	<u>Rights</u>
Peramivir	Intravenous Neuraminidase Inhibitor	Acute uncomplicated Influenza	NDA submitted to FDA	BioCryst (worldwide, except Japan, Taiwan, Korea and Israel)
		Uncomplicated seasonal influenza	Approved (Japan) Approved (Korea)	Shionogi (Japan & Taiwan) Green Cross (Korea)
BCX4161	Oral Serine Protease Inhibitor Targeting Kallikrein	Hereditary angioedema (“HAE”)	Phase 2	BioCryst (worldwide)
Two 2 nd generation HAE compounds	Oral Serine Protease Inhibitors Targeting Kallikrein/intended as once-daily treatments	HAE	Preclinical	BioCryst (worldwide)
BCX4430	RNA dependent-RNA Polymerase Inhibitor	Filoviruses, including hemorrhagic fever viruses	Preclinical	BioCryst (worldwide)
Forodesine	Oral Purine Nucleoside Phosphorylase Inhibitor	Oncology	Phase 2	Mundipharma (worldwide)
Ulodesine	Oral Purine Nucleoside Phosphorylase Inhibitor	Gout	Phase 3 ready	BioCryst (worldwide)

Our Business Strategy

Our business strategy is to maximize sustainable value by moving our product candidate portfolio from discovery through clinical development, registration and ultimately to the market. BioCryst was founded on the strength of its early stage discovery and development capabilities. We may decide to market, distribute and sell our products in specific therapeutic areas. Alternatively, we may rely on partners, licensees and others to develop, market, distribute and/or sell our products in therapeutic areas where we have not developed the pre-requisite expertise or for which we do not intend to develop the commercial infrastructure to commercialize a product. The principal elements of our

strategy are:

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- *Focusing on High Value-Added Structure-Guided Drug Design Technologies.* We utilize structure-guided drug design in order to most efficiently develop new therapeutic candidates. Structure-guided drug design is a process by which we design a product candidate through detailed analysis of the enzyme target, which the product candidate must inhibit in order to stop the progression of the disease or disorder. We believe that structure-guided drug design is a powerful tool for the efficient development of small-molecule product candidates that have the potential to be safe and effective. Our structure-guided drug design technologies typically allow us to design and synthesize multiple product candidates that inhibit the same enzyme target, with the goal of establishing broad patent protection and formulating compounds with competitive advantages.
- *Selecting Inhibitors that are Promising Candidates for Commercialization.* We test multiple compounds to identify those that are most promising for clinical development. We base our selection of product candidates on desirable product characteristics, such as initial indications of safety and efficacy. We believe that this focused strategy allows us to eliminate less promising candidates from consideration sooner without incurring substantial clinical costs. In addition, our preference is to select product candidates on the basis of their potential for relatively efficient Phase 1 and Phase 2 clinical trials.
- *Entering into Contractual Relationships.* An important element of our business strategy is to control fixed costs and overhead through contracting and entering into license agreements with third parties. We maintain a streamlined corporate infrastructure that focuses our expertise. By contracting with other specialty organizations and the U.S. Government, we believe that we can control costs, enable our product candidates to reach the market more quickly and reduce our business risk. We generally plan to advance product candidates through initial and early-stage drug development, and then may out-license product candidates or continue later stage development, depending on the therapeutic area and our capabilities. We seek to retain U.S. rights to our product candidates within specialty markets, while relying on collaborative arrangements with third parties for product candidates within larger markets or outside our area of expertise. Potential third party alliances could include preclinical development, clinical development, regulatory approval, marketing, sales and distribution of our product candidates. We believe partnerships are a good potential source of development payments, license fees, future event payments and royalties. Partnerships may reduce the costs and risks and increase the effectiveness of late-stage drug development, regulatory approval, manufacturing, and selling of our products. We are willing to license a product candidate to a partner during any stage of the development process for which we determine it to be beneficial to us and to the ultimate development and commercialization of that product candidate.

We are a Delaware corporation originally founded in 1986. Our corporate headquarters is located at 4505 Emperor Blvd., Suite 200, Durham, North Carolina 27703 and the corporate telephone number is (919) 859-1302. For more information about us, please visit our website at www.biocryst.com. The information on our website is not incorporated into this Form 10-K.

Peramivir

Peramivir is a neuraminidase inhibitor for the treatment of patients with influenza. Influenza is a seasonal virus with highest infection rates generally observed in colder months. Intravenous (“i.v.”) peramivir has been approved in Japan and Korea for the treatment of patients with influenza. In these countries and in the U.S., influenza occurs primarily during the September to April timeframe.

Peramivir has been developed under a \$234.8 million contract from the Biomedical Advanced Research and Development Authority within the United States Department of Health and Human Services (“BARDA/HHS”). See “Collaborations and In-License Relationships—BARDA/HHS” below for a further discussion of this development contract.

In December 2013, BioCryst submitted a New Drug Application (“NDA”) filing for i.v. peramivir to the U.S. Food & Drug Administration (“FDA”) seeking an indication as the first i.v. neuraminidase inhibitor approved in the U.S. for the treatment of acute uncomplicated influenza in adults. The peramivir NDA submission includes results in over 2,700 subjects treated with peramivir in 27 clinical trials. On February 24, 2014, the FDA notified BioCryst that its NDA filing was accepted by the FDA for review. The FDA is expected to take action on the application by December 23, 2014.

On November 7, 2012, we announced completion of the planned interim analysis of the Phase 3 peramivir 301 clinical trial (“301 trial”). The interim analysis indicated that the difference between the peramivir and the control groups on the primary endpoint was small and the recalculated sample size was greater than the predefined futility boundary of 320 subjects. Based on this information, the independent data monitoring committee (“DMC”) recommended that the study be terminated for futility. We suspended enrollment in the 301 trial and subsequently terminated it. No unexpected adverse events were identified and the DMC expressed no concerns about the safety of peramivir. The 301 trial was a multicenter, randomized, double-blind, controlled study to evaluate the efficacy and safety of 600 mg i.v. peramivir administered once-daily for five days in addition to standard of care (“SOC”), compared to SOC alone, in adults and adolescents hospitalized due to serious influenza. Following the conclusion and review of data from the 301 trial, we scheduled and held a Type C meeting with the FDA to discuss the potential of filing an NDA. In April 2013, we received final meeting minutes from the Type C meeting. The meeting minutes confirmed that our proposed peramivir NDA content supported a reviewable NDA submission for the indication of acute uncomplicated influenza. In June 2013, we completed a pre-NDA meeting with the FDA and reached agreement with the FDA regarding all requirements for a complete NDA submission. In July 2013, BARDA/HHS released \$12.8 million of funding under the peramivir development contract to fund predominantly all activities associated with filing the peramivir NDA.

In January 2010, our partner Shionogi & Co., Ltd. (“Shionogi”) received the world’s first approval for i.v. peramivir and launched it under the commercial name RAPIACTA® in Japan. It was initially approved for the treatment of adults with uncomplicated seasonal influenza, as well

as those at high-risk for complications associated with influenza. In October 2010, Shionogi received approval for an additional indication to treat children and infants with influenza in Japan. In August 2010, Green Cross Corporation (“Green Cross”) received marketing

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and manufacturing approval from the Korean Food & Drug Administration for i.v. peramivir under the commercial name PERAMIFLU[®] to treat patients with influenza A & B viruses, including pandemic H1N1 and avian influenza. In addition, we have a regional collaboration for the development and commercialization of peramivir in Israel.

Peramivir is a potent, intravenously administered antiviral agent that rapidly delivers high plasma concentrations to the sites of infection. Peramivir inhibits the interactions of influenza neuraminidase, an enzyme that is critical to the spread of influenza within the host. Peramivir is an inhibitor of influenza A and B viruses, including strains of influenza viruses that may be resistant to other available neuraminidase inhibitors. In laboratory tests, peramivir has shown activity against multiple influenza strains, including H7N9, H5N1 and pandemic H1N1 swine flu viral strains. Because of the similarities of the neuraminidase active sites among the different strains of the influenza virus, peramivir is a potent broad-spectrum inhibitor and may be effective in the treatment and prevention of influenza irrespective of the strain of the virus. We believe a potent broad-spectrum i.v. neuraminidase inhibitor is important in treating patients with severe and potentially life-threatening influenza and/or those patients that are intolerant to oral or inhaled anti-influenza agents.

The influenza virus causes an acute viral disease of the respiratory tract. Unlike the common cold and some other respiratory infections, seasonal flu can cause severe illness, resulting in life-threatening complications. According to the Centers for Disease Control and Prevention, an estimated 5% to 20% of the American population suffers from influenza annually, and there are approximately 3,000 to 49,000 flu-related deaths per year in the U.S. Most at risk are young children, the elderly and people with seriously compromised immune systems. With the concern of avian influenza and the possible threat of a pandemic, many governments throughout the world have been stockpiling antiviral drugs, such as oseltamivir (TAMIFLU[®]). We have several third-party commercial agreements to assist us should we receive any governmental stockpiling orders. There is interest by many governments, including the U.S. Government, in finding additional vaccines and antivirals to address mutations to the influenza virus or a potential pandemic situation.

Hereditary Angioedema Drug Candidates

BCX4161: BCX4161 is positioned to be the first oral prophylactic drug for the treatment of HAE attacks. BCX4161 is a novel, selective inhibitor of plasma kallikrein in development as an orally-administered treatment for the prevention of attacks in patients with HAE. By inhibiting plasma kallikrein, BCX4161 suppresses bradykinin production. Bradykinin is the mediator of acute swelling attacks in HAE patients. HAE is a rare, severely debilitating and potentially fatal genetic condition that occurs in approximately 1 in 10,000 to 1 in 50,000 people. HAE symptoms include recurrent episodes of edema in various locations, including the hands, feet, face, genitalia and airway. Airway swelling is particularly dangerous and can lead to death by asphyxiation. In addition, patients often have bouts of excruciating abdominal pain, nausea and vomiting that are caused by swelling in the intestinal wall.

In November 2013, we enrolled the first patient in a proof of concept Phase 2a clinical trial in patients with HAE (entitled "OPuS-1"). This clinical trial is evaluating 400 mg of BCX4161 administered three times daily for 28 days in a randomized, placebo-controlled, two-period cross-over design. This trial is designed to provide a proof of concept for oral kallikrein inhibition as a treatment strategy for HAE. Up to 25 HAE patients who have a high frequency of attacks (i.e., more than one per week) are targeted for enrollment. The main goals for this clinical trial are to evaluate the safety and tolerability of BCX4161 and to estimate the degree of efficacy in reducing the frequency of attacks.

On July 31, 2013, we were notified by the FDA that it had removed the clinical hold placed on BCX4161 in November 2012. The FDA placed BCX4161 on clinical hold as it was requiring current Good Manufacturing Practice ("cGMP") standards to the process of compounding BCX4161 at the proposed Phase 1 clinical site. The removal of the clinical hold provides us the ability to initiate BCX4161 clinical trials in the United States and/or include U.S. clinical sites in future BCX4161 clinical trials. To date, BCX4161 clinical trials have been conducted in Europe.

In March 2013, we announced initialization of a BCX4161 Phase 1 clinical trial to support the product candidate's development as a treatment for HAE. The main objectives for the BCX4161 Phase 1 clinical trial were to demonstrate safety, adequate and consistent drug exposure, and pharmacodynamic effects after oral administration. On July 22, 2013, we announced that the Phase 1 clinical trial of orally-administered BCX4161 in healthy volunteers successfully met all of its objectives. The safety, tolerability, drug exposure and on-target kallikrein inhibition results of the Phase 1 clinical trial strongly supported advancing the development program into the Phase 2a study in HAE patients.

Overall, 87 healthy volunteers completed the Phase 1 clinical trial: 30 received a single dose of BCX4161 from 50 mg up to 1000 mg, 40 subjects were dosed with 100 mg, 200 mg, 400 mg, or 800 mg BCX4161 every eight hours for seven days, and 17 received placebo. Oral administration of BCX4161 was generally safe and well tolerated. There were no serious adverse events and no dose limiting adverse events. Laboratory tests of coagulation remained normal. Drug exposure was dose proportional through 400 mg three times a day. Steady state (day seven) blood levels were 30% higher compared to the first day of dosing. At 400 mg three times a day, pre-dose geometric mean (coefficient of variance, CV) drug levels on day 7 were 28.6 ng/mL (CV 77%) and post-dose maximum drug levels were 152 ng/mL (CV 57%). Kallikrein inhibition was observed throughout the dosing interval, $p < 0.0001$ compared to placebo.

2nd generation HAE compounds: In December 2013, we announced the selection of two optimized plasma kallikrein inhibitors to advance into preclinical development as potential once-daily, oral treatments for the prevention of HAE attacks. The second generation discovery program's goals of improving selectivity and bioavailability, as compared to BCX4161, were both met, with no off-target effect on prothrombin time at high concentrations (>50 micromolar), and oral fraction absorbed exceeding 25%, which equates to roughly 5 times better bioavailability

than absorption with BCX4161. These compounds demonstrate sub-nanomolar potency on the isolated enzyme and single digit

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nanomolar potency in suppressing kallikrein activity in an ex-vivo activated human plasma kallikrein inhibition (“aPKI”) assay. Plasma concentrations of each of the optimized compounds exceeded the aPKI assay EC80 concentration at 24 hours after a single oral dose of 10 mg/kg in rats, indicating suitability for once-daily dosing.

BCX4430

The objective of BioCryst’s broad-spectrum antiviral (“BSAV”) program is to develop a broad-spectrum therapeutic for viruses that pose a threat to national health and security. The primary focus of the program is treatment of hemorrhagic fever viruses, such as Marburg virus and Ebola virus. BCX4430 is the lead compound in our BSAV research program and is currently being developed under a contract with the National Institute of Allergy and Infectious Diseases (“NIAID/HHS”).

In September 2013, NIAID/HHS contracted with BioCryst for the development of BCX4430 as a treatment for Marburg virus disease. NIAID/HHS, part of the National Institutes of Health, made an initial award of \$5.0 million to BioCryst. The total funding under the contract could be up to \$22.0 million, if all contract options are exercised by NIAID/HHS. The goals of this contract are to file investigational new drug (“IND”) applications for i.v. and intramuscular (“i.m.”) BCX4430 for the treatment of Marburg virus disease, and to conduct an initial Phase 1 human clinical trial. The aggregate \$22.0 million contract and option funding supports the appropriate IND-enabling program and the initial clinical trial.

On December 26, 2013, NIAID/HHS exercised an option under the Agreement with BioCryst to conduct the IND enabling program and to submit an IND. This option represented an additional \$2.5 million to the Company in order to advance the development of BCX4430 as a treatment for Marburg virus disease. Accordingly, with this option exercise total obligated funding aggregates to \$7.5 million under the \$22.0 million contract. The other terms and conditions of the agreement remain unchanged.

In March 2014, we announced the online publication in the journal *Nature* of BCX4430 efficacy results in animal models of infection with Marburg virus and Ebola virus. BCX4430 completely protected cynomolgus macaques from Marburg virus infection when administered by intramuscular injection 48 hours post-infection. Post-exposure intramuscular administration of BCX4430 also protected rodents against Marburg virus and Ebola virus infections. In addition, BCX4430 was shown to be active in vitro against a broad range of other RNA viruses, including the emerging viral pathogen Middle East Respiratory Syndrome Coronavirus (MERS-CoV). The publication, which reported the protection of non-human primates from filovirus disease by BCX4430, describes efficacy results generated from an ongoing collaboration between scientists in the U.S. Army Medical Research Institute of Infection Diseases (“USAMRIID”) and us. BCX4430 has been shown to be active against more than 20 RNA viruses in nine different families, including filoviruses, togaviruses, bunyaviruses, arenaviruses, paramyxoviruses, coronaviruses and flaviviruses. In tests conducted at USAMRIID, BCX4430 protected animals against parenteral exposures to Marburg, Ebola and Rift Valley Fever viruses and from exposures to aerosolized Marburg virus, an experimental condition designed to mimic an exposure scenario that could result during a bioterrorist attack.

On November 12, 2012, we announced proof-of-principle data demonstrating that BCX4430 is efficacious and well-tolerated in a preclinical disease model for evaluating efficacy against yellow fever virus infection at the 2nd Antivirals Congress in Cambridge. We are continuing our collaboration with USAMRIID regarding filoviruses, while seeking additional U.S. Government funding (beyond the \$22.0 million NIAID/HHS contract) for the further development of BCX4430.

BCX5191

BCX5191 was a novel adenine nucleoside analog targeting viral RNA polymerase for the potential treatment of hepatitis C virus (“HCV”). We successfully completed in-vitro and in-vivo studies in which BCX5191 exhibited potent and selective pan-genotypic antiviral activity against the isolated hepatitis C polymerase enzyme, while rapidly converting to the active triphosphate form in the liver. On January 28, 2013, we terminated the BCX5191 preclinical program. Following a seven day animal study, after treatment of 20mg/day of BCX5191 (i.e., a non-toxic dose), the viral load reduction observed in the animals was insufficient to justify continued development.

Purine Nucleoside Phosphorylase (“PNP”) Inhibitors

PNP is a purine salvage pathway enzyme. Low doses of PNP inhibitors could be useful in reducing serum uric acid (“sUA”) for the treatment of gout, while high doses of PNP inhibitors could be useful in the treatment of hematological malignancies. We have two PNP inhibitors in our portfolio of product candidates, ulodesine for the treatment of gout and forodesine for the treatment of hematological malignancies. We licensed the technology for our PNP inhibitors from Albert Einstein College of Medicine of Yeshiva University (“AECOM”) and Industrial Research, Ltd. (“IRL”) and will owe sublicense payments to AECOM/IRL based on the future milestone payments and royalties received by us from Mundipharma and any other partners for which we out-license our PNP inhibitors. On November 17, 2011, we amended our agreement with AECOM/IRL whereby AECOM/IRL agreed to accept a reduction of one-half of the percentage of Net Proceeds (as defined in the license agreement) received by us under our Amended and Restated Agreement with Mundipharma. This reduction does not apply to royalty payments made as a result of sales of licensed products by our sub licensees.

Forodesine

Forodesine is a PNP inhibitor in development by Mundipharma as a treatment for cancer under a world-wide license agreement. In January

2013, Mundipharma's Japanese subsidiary, Mundipharma K.K., initiated enrollment in a phase 1/2 clinical trial of forodesine in recurrent/refractory peripheral T-cell lymphoma patients. The objective of the Phase 1 portion is to confirm safety and tolerability in recurrent/refractory peripheral T-cell lymphoma patients during repeated oral administration of forodesine 300 mg twice daily for 28 days, to evaluate pharmacokinetics, and to determine the recommended dose for Phase 2. The goal of the Phase 2 portion is to evaluate the efficacy, safety, and pharmacokinetics of the recommended dosage regimen determined in the Phase 1 portion. The primary efficacy endpoint shall be objective response rate ("ORR") based on evaluation by an image assessment committee.

On November 11, 2011, we entered into an Amended and Restated License and Development Agreement (the "Amended and Restated Agreement") with Mundipharma, amending and restating the February 1, 2006 exclusive, royalty-bearing Development and License Agreement for the development and commercialization of forodesine for use in the field of oncology. Under the terms of the Amended and Restated Agreement, Mundipharma obtained worldwide rights to forodesine, so they now control the worldwide development and commercialization of forodesine and assume all future development and commercialization costs. The Amended and Restated Agreement is a multiple element arrangement for accounting purposes in which we were required to deliver to Mundipharma both the worldwide rights to forodesine and the transfer of product data and know-how to permit Mundipharma to develop and commercialize forodesine (the "Knowledge Transfer"). The world-wide license rights were granted to Mundipharma upon execution of Amended and Restated Agreement and the Knowledge Transfer was completed in the first quarter of 2012. We have accounted for these elements as a combined unit of accounting as

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neither one has stand-alone value to Mundipharma. Upon completion of the Knowledge Transfer, the unamortized deferred revenue and deferred expense of \$7.8 million and \$1.9 million, respectively, were recognized in our Statements of Comprehensive Loss in the quarter ended March 31, 2012.

Ulodesine

Ulodesine is a PNP inhibitor developed as a once-daily oral, chronic treatment for gout. It acts upstream of xanthine oxidase in the purine metabolism pathway to reduce the production of sUA. Xanthine oxidase inhibitors, such as allopurinol and febuxostat, reduce uric acid production. In Phase 2 clinical trials, the combination of low doses of ulodesine and allopurinol resulted in a synergistic effect in reducing sUA.

In July 2012, we announced favorable 52-week safety results and sustained efficacy from the extension phase of the randomized Phase 2b clinical trial of ulodesine added to allopurinol in patients with gout who had failed to reach the sUA therapeutic goal of <6 mg/dL on allopurinol alone, as well as positive Phase 2 safety results in patients with mild to moderate renal impairment. The approximate doubling of sUA response rates with ulodesine seen at 12 weeks was sustained through 52 weeks of treatment. After 52 weeks of treatment, ulodesine doses of 5 mg, 10 mg, and 20 mg/day showed response rates of 45%, 47%, and 64%, respectively, compared to 19% for placebo. With the results of the 203 clinical trial, we have now concluded Phase 2 testing. Following the successful conclusion of the ulodesine Phase 2 testing and in conjunction with favorable interactions with U.S. and European regulatory agencies, we began the process of seeking a partner to fund Phase 3 development and commercialization of ulodesine. Due to the cost of future development and commercialization, we do not plan to initiate Phase 3 development of ulodesine without a partner. We have not entered a partnering arrangement for ulodesine and do not have any development activities ongoing with this program.

Corporate restructuring

On December 7, 2012, we announced a corporate restructuring intended to significantly reduce our cost structure and to implement a focused strategy to advance our hereditary HAE and antiviral programs. The corporate restructuring included a workforce reduction of approximately 50% of our headcount, or 38 positions. We restructured our operations and implemented a focused R&D strategy in order to have sufficient liquidity to advance our HAE and antiviral programs to reach near-term value milestones. The restructuring and research and development focus significantly reduced our cost structure. We recorded a restructuring charge of \$1.8 million in the fourth quarter of 2012.

Collaborations and In-License Relationships

BARDA/HHS. In January 2007, BARDA/HHS awarded us a \$102.6 million, four-year contract for the advanced development of peramivir for the treatment of influenza. Since the initial contract award, the contract has been amended to reflect modifications in the development plan of peramivir for influenza, and the total contract amount from BARDA/HHS is \$234.8 million. Through December 31, 2013, approximately \$201.8 million has been recognized as revenue under this contract. In conjunction with the termination of the peramivir 301 trial in November 2012 and the NDA filing in December 2013, all substantial peramivir development activity has been completed.

In January 2006, we received FDA Fast Track designation for peramivir. In September 2009, we received a Request for Proposal from BARDA/HHS for the supply of i.v. peramivir. In October 2009, the FDA granted an Emergency Use Authorization (“EUA”) for i.v. peramivir, which expired in June 2010, with the expiration of the declared emergency. On November 4, 2009, we received and shipped an order for 10,000 courses of i.v. peramivir (600 mg once-daily for five days) under the EUA for an aggregate purchase price of \$22.5 million.

On February 24, 2011, we announced that BARDA/HHS had awarded us a contract modification of \$55.0 million, intended to fund completion of the Phase 3 development of i.v. peramivir for the treatment of patients hospitalized with influenza. This contract modification brought the total award from BARDA/HHS to \$234.8 million and extended the contract term by 24 months through December 31, 2013, providing funding through completion of Phase 3 and to support the filing of an NDA to seek regulatory approval for i.v. peramivir in the U.S. Through December 31, 2013, \$201.8 million has been recognized as revenue under the contract. The contract has been modified to expire on March 31, 2014, as substantially all work on the contract has been completed in association with the regulatory filing of the NDA.

NIAID/HHS. In September 2013, NIAID/HHS contracted with us for the development of BCX4430 as a treatment for Marburg virus disease. NIAID/HHS, part of the National Institutes of Health, made an initial award of \$5.0 million to us. The total funding under this contract could be up to \$22.0 million, if all contract options are exercised by NIAID/HHS, over a five year period. The goals of this contract are to file IND applications for intravenous i.v. and i.m. BCX4430 for the treatment of Marburg virus disease, and to conduct Phase 1 human clinical trials. The aggregate \$22.0 million contract and option funding supports the appropriate IND-enabling program and the initial clinical trial. As of December 31, 2013, a total of \$7.5 million has been awarded under exercised options within the contract. BCX4430 is the lead compound in our BSAV research program. This project will be funded in whole or in part with Federal funds from the NIAID/HHS, National Institutes of Health, Department of Health and Human Services.

Shionogi. On February 28, 2007, we entered into a License, Development and Commercialization Agreement (as amended, supplemented or otherwise modified, the “Shionogi Agreement”), an exclusive license agreement with Shionogi to develop and commercialize peramivir in Japan for the treatment of seasonal and potentially life-threatening human influenza. In October 2008, we and Shionogi amended the Shionogi Agreement to expand the territory covered by the agreement to include Taiwan and to provide rights for Shionogi to perform a Phase 3 clinical trial in Hong Kong. Under the terms of the Shionogi Agreement, Shionogi obtained rights to injectable formulations of peramivir in Japan in

exchange for a \$14.0 million upfront payment. The license provided for development milestone payments (up to \$21.0 million), which have all been paid, and for commercial milestone payments (up to \$95.0 million) in addition to double-digit (between 10% and 20%) royalty payments on product sales of peramivir.

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Generally, all payments under the Shionogi Agreement are non-refundable and non-creditable, but they are subject to audit. Shionogi is responsible for all development, regulatory, and marketing costs in Japan. The term of the Shionogi Agreement is from February 28, 2007 until terminated. Either party may terminate in the event of an uncured breach. Shionogi has the right of termination without cause. In the event of termination, all license and rights granted to Shionogi shall terminate and shall revert back to us. We developed peramivir under a license from the University of Alabama Birmingham (“UAB”) and have paid sublicense payments to UAB on the upfront payments and will owe sublicense payments on any future event payments and/or royalties received by us from Shionogi.

PhaRMA Notes and Currency Hedge Agreement.

On March 9, 2011, we announced that JPR Royalty Sub LLC (“Royalty Sub”), a wholly-owned subsidiary of BioCryst, completed a private placement to institutional investors of \$30.0 million in aggregate principal amount of its PhaRMA Senior Secured 14% Notes due 2020, (“PhaRMA Notes”). The PhaRMA Notes, which are obligations of Royalty Sub, are secured by (i) Royalty Sub’s rights to receive royalty payments from Shionogi in respect of commercial sales of RAPIACTA in Japan and, if approved for commercial sale, Taiwan, as well as future milestone payments payable by Shionogi under the Shionogi Agreement and all of Royalty Sub’s other assets, and (ii) a pledge by us of our equity interest in Royalty Sub. Royalty Sub’s obligations to pay principal and interest on the PhaRMA Notes are obligations solely of Royalty Sub and are without recourse to any other person, including us, except to the extent of our pledge of our equity interests in Royalty Sub in support of the PhaRMA Notes.

In connection with the issuance of the PhaRMA Notes by Royalty Sub, we entered into a purchase and sale agreement (the “Purchase and Sale Agreement”) dated as of March 9, 2011 between us and Royalty Sub. Under the terms of the Purchase and Sale Agreement, we transferred to Royalty Sub, among other things, (i) our rights to receive certain royalty and milestone payments from Shionogi arising under the Shionogi Agreement, and (ii) the right to receive payments under a Japanese yen/U.S. dollar foreign currency hedge arrangement put into place by us in connection with the transaction. Of the \$30.0 million in gross proceeds from the sale of the PhaRMA Notes by Royalty Sub, \$3.0 million was used to fund an interest reserve account, and after fees and financing expenses in connection with the transactions, the net proceeds to us were approximately \$22.7 million. See Note 3, *Royalty Monetization*, in the consolidated financial statements included in Item 8 below for a further description of the terms and conditions of this financing transaction.

The Purchase and Sale Agreement includes customary representations, warranties and covenants by us and customary indemnification and other provisions typical for asset sale agreements in structured financing transactions for pharmaceutical royalty payments.

The PhaRMA Notes were issued by Royalty Sub under an Indenture, dated as of March 9, 2011 (the “Indenture”), by and between Royalty Sub and U.S. Bank National Association, as Trustee (the “Trustee”). Principal and interest on the PhaRMA Notes issued by Royalty Sub are payable from, and are secured by, the rights to royalty and milestone payments under the Shionogi Agreement transferred by us to Royalty Sub and payments, if any, made to Royalty Sub under the Currency Hedge Agreement (defined below). Payments may also be made from the interest reserve account and certain other accounts established in accordance with the Indenture. Principal on the PhaRMA Notes is required to be paid in full by the final legal maturity date of December 1, 2020, unless the PhaRMA Notes are repaid, redeemed or repurchased earlier. The PhaRMA Notes are redeemable by Royalty Sub beginning March 9, 2012 as described below. The PhaRMA Notes bear interest at the rate of 14% per annum, payable annually in arrears on September 1st of each year, beginning on September 1, 2011 (each, a “Payment Date”).

Various accounts have been established in accordance with the Indenture, including, among others, the interest reserve account as well as a collections account into which royalty and milestone payments under the Shionogi Agreement will be made. In addition, we may, but are not obligated to, make capital contributions to a capital account that may be used to redeem, or on up to one occasion pay any interest shortfall on, the PhaRMA Notes.

On each Payment Date in respect of the PhaRMA Notes, funds will be applied by the Trustee in the order of priority set forth below:

- first, to Royalty Sub for the payment of all taxes owed by Royalty Sub, if any;
- second, to the payment of certain expenses of Royalty Sub not previously paid or reimbursed;
- third, to the Trustee for distribution to the holders, all interest due and payable on the PhaRMA Notes, including any accrued and unpaid interest due on prior Payment Dates, and any accrued and unpaid interest on such unpaid interest, compounded annually, taking into account any amounts paid from the interest reserve account and capital account on such Payment Date;
- fourth, as long as no event of default has occurred and is continuing, on the September 1, 2014 Payment Date, the September 1, 2015 Payment Date or the September 1, 2016 Payment Date, to the interest reserve account, the amount (if any) set forth in a written direction to the Trustee from Royalty Sub; provided, that such application of funds, together with any such prior application of funds, shall not exceed \$2.1 million in the aggregate;
- fifth, to the Trustee for distribution to the holders of the PhaRMA Notes, principal payments on the PhaRMA Notes (without premium or penalty), allocated pro rata among the holders of the PhaRMA Notes, until the outstanding principal balance of such PhaRMA Notes has been paid in full;

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- sixth, after the PhaRMA Notes have been paid in full, to the Trustee for the payment of principal of, and interest on, subordinated notes, if any, issued by Royalty Sub as permitted by the Indenture for the PhaRMA Notes in certain circumstances;
- seventh, after the PhaRMA Notes have been paid in full, to the ratable payment of all other obligations under the Indenture for the PhaRMA Notes until all such amounts are paid in full; and
- eighth, after the PhaRMA Notes and all amounts owing under the Indenture have been paid in full, to Royalty Sub, all remaining amounts.

If the amounts available for payment on any Payment Date are insufficient to pay all of the interest due on a Payment Date, unless sufficient capital is contributed to Royalty Sub by us as permitted under the Indenture or the interest reserve account is available to make such payment, the shortfall in interest will accrue interest at the interest rate applicable to the PhaRMA Notes compounded annually. If such shortfall (and interest thereon) is not paid in full on or prior to the next succeeding Payment Date, an “Event of Default” under the Indenture will occur. Events of Default under the Indenture include, but are not limited to, the following:

- failure to pay interest on the PhaRMA Notes due on any Payment Date (other than the final legal maturity date or any redemption date) in full, on or prior to the next succeeding Payment Date, together with any additional accrued and unpaid interest on any interest not paid on the Payment Date on which it was originally due;
- failure to pay principal and premium, if any, and accrued and unpaid interest on the PhaRMA Notes on the final legal maturity date, or failure to pay the redemption price when required on any redemption date;
- failure to pay any other amount due and payable under the Indenture and the continuance of such default for a period of 30 or more days after written notice thereof is given to Royalty Sub by the Trustee;
- failure by Royalty Sub to comply with certain covenants set forth in the Indenture or the PhaRMA Notes, provided, that, if the consequences of the failure can be cured, such failure continues for a period of 30 days or more after written notice of the failure has been given to Royalty Sub by the Trustee at the direction of holders of a majority of the outstanding principal balance of PhaRMA Notes, and, except in respect of a covenant, obligation, condition or provision already qualified in respect of Material Adverse Change (as defined in the Indenture), such failure is a Material Adverse Change;
- Royalty Sub becomes subject to a Voluntary Bankruptcy or an Involuntary Bankruptcy (each as defined in the Indenture);
- any judgment or order for the payment of money in excess of \$1.0 million (not paid or covered by insurance) shall be rendered against Royalty Sub and either (i) enforcement proceedings have been commenced by any creditor upon such judgment or order or (ii) there is any period of 30 consecutive days during which a stay of enforcement of such judgment or order, by reason of a pending appeal or otherwise, shall not be in effect;
- Royalty Sub is classified as a corporation or publicly traded partnership taxable as a corporation for U.S. federal income tax purposes;
- Royalty Sub becomes an investment company required to be registered under the Investment Company Act of 1940, as amended;
- we shall have failed to perform any of our covenants under the Purchase and Sale Agreement and such failure is a Material Adverse Change; or
- the Trustee shall fail to have a first-priority perfected security interest in any of the collateral securing the PhaRMA Notes or in any of the equity in Royalty Sub pledged by us.

The Indenture does not contain any financial covenants. Additionally, the Indenture includes customary representations and warranties of Royalty Sub, affirmative and negative covenants of Royalty Sub, the above-described Events of Default and related remedies, and provisions regarding the duties of the Trustee, indemnification of the Trustee, and other matters typical for indentures used in structured financings of this type.

The PhaRMA Notes are redeemable at the option of Royalty Sub at any time for the outstanding principal balance of the PhaRMA Notes plus accrued and unpaid interest through the redemption date on the PhaRMA Notes. As stipulated under the Indenture, if the amount available for payment on any Payment Date is insufficient to pay all of the interest due on a Payment Date, the shortfall in interest will accrue interest at the interest rate applicable to the PhaRMA Notes compounded annually. Accordingly, commencing in September 2013, we began accruing interest at 14% per annum on an interest shortfall of \$2.4 million, which occurred from an interest shortfall on September 3, 2013. Under the terms of the Indenture, Royalty Sub’s inability to pay the full amount of interest payable in September 2013 did not constitute an event of default under the PhaRMA Notes unless the shortfall, plus interest thereon, is not satisfied on the next succeeding Payment Date for the PhaRMA Notes, which is September 1, 2014.

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In association with the PhaRMA Notes, we entered into a Currency Hedge Agreement to hedge certain risks associated with changes in the value of the Japanese yen relative to the U.S. dollar (the “Currency Hedge Agreement”). Under the Currency Hedge Agreement, we have the right to purchase dollars and to sell yen at a rate of 100 yen per dollar for which we may be required to pay a premium in each year from 2014 through 2020, provided the Currency Hedge Agreement remains in effect. A payment of \$2.0 million will be required if, on May 18 of the relevant year, the U.S. dollar is worth 100 yen or less as determined in accordance with the Currency Hedge Agreement. In conjunction with establishing the Currency Hedge Agreement, we will be required to post collateral to the counterparty, which may cause us to experience additional quarterly volatility in our financial results. We will not be required at any time to post collateral exceeding the maximum premium payments remaining payable under the Currency Hedge Agreement. Subject to certain obligations we have in connection with the PhaRMA Notes, we have the right to terminate the Currency Hedge Agreement with respect to the 2016 through 2020 period by giving notice to the counterparty prior to May 18, 2014 and paying a \$2.0 million termination fee.

Green Cross. In June 2006, we entered into an agreement with Green Cross to develop and commercialize peramivir in Korea. Under the terms of the agreement, Green Cross will be responsible for all development, regulatory, and commercialization costs in Korea. We received a one-time license fee of \$250,000. The license provides that we will share in profits resulting from the sale of peramivir in Korea, including the sale of peramivir to the Korean government for stockpiling purposes. Furthermore, Green Cross will pay us a premium over its cost to supply peramivir for development and any future marketing of peramivir products in Korea. Both parties have the right to terminate in the event of an uncured material breach. In the event of termination, all rights, data, materials, products and other information would be transferred to us.

In August 2010, we announced that Green Cross had received marketing and manufacturing approval from the Korean Food & Drug Administration for i.v. peramivir, under the commercial name PERAMIFLU[®]. PERAMIFLU is intended to treat patients with influenza A & B viruses, including pandemic H1N1 and avian influenza. Green Cross received the indication of single dose administration of 300 mg i.v. peramivir. Since PERAMIFLU’s approval, Green Cross has been in pricing discussions with the Korean National Health Insurance Corporation and has yet to agree to a formulary price. PERAMIFLU’s distribution to date has been limited to a case-by-case basis.

Other Peramivir Collaborations. In addition to Shionogi and Green Cross, we have arrangements with Neopharm of Israel to represent us and peramivir for government stockpiling purposes in Israel.

AECOM and IRL. In June 2000, we licensed a series of potent PNP inhibitors from AECOM/IRL. The license agreement has been amended six times, most recently on June 19, 2012. The lead product candidates from this collaboration are forodesine and ulodesine. We have obtained worldwide exclusive rights to develop these product candidates for human PNP inhibition and ultimately to distribute these, or any other, product candidates that might arise from research on these PNP inhibitors. We have the option to expand the agreement to include other inventions in the field made by the investigators or employees of AECOM/IRL. We have agreed to use commercially reasonable efforts to develop these products. This license agreement may be terminated by us at any time by giving 60 days advance notice or in the event of material uncured breach by AECOM/IRL.

In addition, we agreed to pay certain milestone payments for each licensed product, which range in the aggregate from \$1.4 million to almost \$4.0 million per indication, for future development of these inhibitors, single-digit royalties on net sales of any resulting product made by us, and to share approximately one quarter of future payments received from third-party sub licensees of the licensed PNP inhibitors, if any. We also agreed to pay annual license fees ranging from \$150,000 to \$500,000, creditable against actual royalties and other payments due to AECOM/IRL.

Under the terms of the May 2010 amendment, AECOM/IRL agreed to accept a reduction of one-half in the percentage of future Net Proceeds (as defined in the license agreement). The reduction did not apply to any payment received by us under the license agreement dated February 1, 2006 with Mundipharma. Further, the reduction did not apply to royalty payments as a result of sales of licensed products by us or our sub licensees. In consideration for the May 2010 modification, we issued to AECOM/IRL shares of our common stock with an aggregate value of approximately \$5.9 million and paid AECOM/IRL approximately \$90,000 in cash. The value of this consideration began to be amortized to expense in May 2010 and will end in September 2027, which is the expiration date for the last-to-expire patent covered by the agreement. We also agreed to pay certain fees or commissions incurred by AECOM/IRL in connection with subsequent sales of the shares issued pursuant to the amendment.

Under the terms of the November 2011 amendment, AECOM/IRL agreed to accept a reduction of one-half in the percentage of all Net Proceeds (as defined in the license agreement) received by us under our Amended and Restated Agreement with Mundipharma.

Under the terms of the June 2012 amendment, the parties clarified the definition of the field with respect to PNP inhibition and AECOM/IRL agreed to the exclusive worldwide license of BCX4430 to BioCryst for any antiviral use.

At our sole option and subject to certain agreed upon conditions, any future non-royalty payments due to be paid by us to AECOM/IRL under the license agreement may be made either in cash, in shares of our common stock, or in a combination of cash and shares.

Mundipharma. In February 2006, we entered into an exclusive, royalty bearing right and license agreement with Mundipharma for the development and commercialization of forodesine, a PNP inhibitor, for use in oncology (the “Original Agreement”). Under the terms of the Original Agreement, Mundipharma obtained rights to forodesine in markets across Europe, Asia, and Australasia in exchange for a \$10.0 million up-front payment. In addition, Mundipharma contributed \$10.0 million of the documented out-of-pocket development costs incurred by us in

respect of the current and planned trials as of the effective date of the agreement, and Mundipharma would conduct additional clinical trials at their own cost up to a maximum of \$15.0 million. The Original Agreement provided for the possibility of future event

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payments totaling \$155.0 million for achieving specified development, regulatory and commercial events (including certain sales level amounts following a product's launch) for certain indications. In addition, the Original Agreement provided that we would receive royalties (ranging from single digits to mid teens) based on a percentage of net product sales, which varies depending upon when certain indications receive NDA approval in a major market country and can vary by country depending on the patent coverage or sales of generic compounds in a particular country. Generally, all payments under the Original Agreement were nonrefundable and non-creditable, but they are subject to audit. We licensed forodesine and other PNP inhibitors from AECOM/IRL and will owe sublicense payments to AECOM/IRL on all milestone payments and royalties received by us from Mundipharma.

On November 11, 2011, we entered into the Amended and Restated Agreement with Mundipharma. Under the terms of this Amended and Restated Agreement, Mundipharma obtained worldwide rights to forodesine in the field of oncology. Mundipharma will control the development and commercialization of forodesine and assume all future development and commercialization costs. The Amended and Restated Agreement provides for the possibility of future event payments totaling \$15.0 million for achieving specified regulatory events for certain indications. In addition, the Amended and Restated Agreement provides that we will receive tiered royalties ranging from mid- to high-single-digit percentages of net product sales in each country where forodesine is sold by Mundipharma. These royalties are subject to downward adjustments based on the then-existing patent coverage and/or the availability of generic compounds in each country. Generally, all payments under the Amended and Restated Agreement are nonrefundable and non-creditable, but they are subject to audit.

Mundipharma will also have a right of exclusive negotiations with us for a limited period of time if they initiate negotiations for a specified backup PNP inhibitor. Otherwise, they will be able to participate in the same negotiations process we enter into with another company for the backup PNP inhibitor. The Amended and Restated Agreement will continue for the commercial life of the licensed products, but may be terminated by either party following an uncured material breach by the other party or in the event the pre-existing third party license with AECOM/IRL expires. It may be terminated by Mundipharma upon 60 days written notice without cause or under certain other conditions as specified in the Amended and Restated Agreement. If Mundipharma terminates the Amended and Restated Agreement, Mundipharma would no longer have any rights in forodesine and the rights would revert back to us; provided, however, that in the event the we determine to subsequently use the data developed under the Amended and Restated Agreement for development and commercialization of forodesine in the field of oncology, then we would have to pay Mundipharma 150% of the cost of such data for such use. The Amended and Restated Agreement resolved all ongoing disputes between the parties and concluded ongoing negotiations.

Emory University ("Emory"). In June 2000, we licensed intellectual property from Emory related to the hepatitis C polymerase target associated with hepatitis C viral infections. In accordance with termination provision under the license agreement, we provided 90 days written notice of termination in April 2013 following the termination of our antiviral development program for treatment of hepatitis C as announced in January 2013. The license agreement was terminated on July 28, 2013.

The University of Alabama at Birmingham ("UAB"). Several of our programs originated at UAB. We currently have agreements with UAB for influenza neuraminidase and complement inhibitors. Under the terms of these agreements, UAB performed specific research for us in return for research payments and license fees. UAB has granted us certain rights to any discoveries in these areas resulting from research developed by UAB or jointly developed with us. We have agreed to pay single-digit royalties on sales of any resulting product and to share in future payments received from other third-party partners. We have completed the research under both the complement and influenza agreements. These two agreements have initial 25-year terms, are automatically renewable for five-year terms throughout the life of the last patent and are terminable by us upon three months' notice and by UAB under certain circumstances. Upon termination each party shall cease using the other party's proprietary and confidential information and materials, the parties shall jointly own joint inventions and UAB shall resume full ownership of all UAB licensed products. There is currently no activity between us and UAB on these agreements, but when we license this technology, such as in the case of the Shionogi and Green Cross agreements, or commercialize products related to these programs, we will owe sublicense fees or royalties on amounts we receive.

Government Contracts

On February 24, 2011, we announced that BARDA/HHS had awarded us a contract modification of \$55.0 million, intended to fund completion of the Phase 3 development of i.v. peramivir for the treatment of patients hospitalized with influenza. This contract modification brought the total award from BARDA/HHS to \$234.8 million and extended the contract term by 24 months through December 31, 2013, providing funding through completion of Phase 3 and to support the filing of an NDA to seek regulatory approval for i.v. peramivir in the U.S. Through December 31, 2013, \$201.8 million has been recognized as revenue under the contract. The contract has been modified to expire on March 31, 2014, as substantially all work on the contract has been completed in association with the regulatory filing of the NDA.

In September 2013, NIAID/HHS contracted with us for the development of BCX4430 as a treatment for Marburg virus disease. NIAID/HHS, part of the National Institutes of Health, made an initial award of \$5.0 million to us. The total funding under this contract could be up to \$22.0 million, if all contract options are exercised by NIAID/HHS, over a five year period. The goals of this contract are to file IND applications for intravenous i.v. and i.m. BCX4430 for the treatment of Marburg virus disease, and to conduct Phase 1 human clinical trials. The aggregate \$22.0 million contract and option funding supports the appropriate IND-enabling program and the initial clinical trial. As of December 31, 2013, a total of \$7.5 million has been awarded under exercised options within the contract. BCX4430 is the lead compound in our BSAV research program. This project will be funded in whole or in part with Federal funds from the NIAID/HHS, National Institutes of Health, Department of Health and Human Services.

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Our contracts with BARDA/HHS and NIAID/HHS are milestone-driven, cost-plus-fixed-fee contracts. BARDA/HHS and NIAID/HHS will make periodic assessments of our progress, and the continuation of the contracts and/or exercise of options within the contracts, are based on our performance, the timeliness and quality of deliverables, and other factors. The government has rights under certain contract clauses to terminate these contracts. The contracts are terminable by the government at any time for breach or for convenience. In addition, the government has the right to audit costs billed to them under the contracts and routinely conducts audits on our contracts. Any findings associated with these routine audits are generally reflected prospectively in our operating results upon the ultimate agreement and resolutions of the audit findings.

BARDA/HHS has indicated that antiviral drugs are an important element of their pandemic influenza preparedness efforts and that their strategy includes not only stockpiling of existing antiviral drugs, but also seeking out new antiviral medications to further broaden their capabilities to treat and prevent all forms of influenza. Peramivir is in the same class of neuraminidase inhibitors as oseltamivir (TAMIFLU) and zanamivir (RELENZA[®]). We committed under contract to work with BARDA/HHS to develop parenteral formulations of peramivir, which could be especially useful in hospital settings or pandemic situations due to the ability to deliver high levels of the drug rapidly throughout the body.

Under the defined scope of work in the contract with BARDA/HHS for the development of peramivir, a process was undertaken to validate a U.S.-based manufacturer and the related method for producing commercial batches of peramivir active pharmaceutical ingredient (“API”). As a required outcome of this validation process, large quantities of peramivir API were produced. In accordance with our accounting practices, we recorded all costs associated with this validation process as research and development expenses in our Consolidated Statements of Comprehensive Loss. Simultaneously, revenue from the BARDA/HHS contract was also recorded in our Consolidated Statements of Comprehensive Loss in 2009. BARDA/HHS subsequently reimbursed us for these costs and upon reimbursement from BARDA/HHS, the associated peramivir API became property of the U.S. Government.

Under the terms of the contract, if we determine the amount of peramivir API produced under the contract is in excess of what is necessary to complete the contract, we can acquire any excess peramivir API at cost to use for our own purposes. We believe that as a result of the manufacturing campaign described above, more peramivir API has been produced than is required to support U.S. regulatory approval. If we use any excess API for our other contracts or activities, we will need to reconcile through an appropriate acquisition process with BARDA/HHS and to determine the appropriate acquisition process remuneration for this API.

Patents and Proprietary Information

Our success will depend in part on our ability to obtain and enforce patent protection for our products, methods, processes and other proprietary technologies, preserve our trade secrets, and operate without infringing on the proprietary rights of other parties, both in the United States and in other countries. We own or have rights to certain proprietary information, proprietary technology, issued and allowed patents and patent applications which relate to compounds we are developing. We actively seek, when appropriate, protection for our products, proprietary technology and proprietary information by means of U.S. and foreign patents, trademarks and contractual arrangements. In addition, we rely upon trade secrets and contractual arrangements to protect certain of our proprietary information, proprietary technology and products.

The patent positions of companies like ours are generally uncertain and involve complex legal and factual questions. Our ability to maintain and solidify our proprietary position for our technology will depend on our success in obtaining effective patent claims and enforcing those claims once granted. We do not know whether any of our patent applications or those patent applications that we license will result in the issuance of any patents. Our issued patents and those that may issue in the future, or those licensed to us, may be challenged, invalidated, rendered unenforceable or circumvented, which could limit our ability to stop competitors from marketing related products or the length of term of patent protection that we may have for our products. In addition, the rights granted under any issued patents may not provide us with competitive advantages against competitors with similar compounds or technology. Furthermore, our competitors may independently develop similar technologies or duplicate any technology developed by us in a manner that does not infringe our patents or other intellectual property. Because of the extensive time required for development, testing and regulatory review of a potential product, it is possible that, before any of our product candidates or those developed by our partners can be commercialized, any related patent may expire or remain in force for only a short period following commercialization, thereby reducing any advantage of the patent.

As of January 31, 2013, we have been issued 75 U.S. patents that expire between 2015 and 2027 and that relate to our HAE program compounds, neuraminidase inhibitor compounds, BSAV and PNP compounds. We have licensed six different classes of compounds representing new composition of matter patents from AECOM and IRL, plus additional manufacturing patents. Additionally, we have approximately 80 PCT or U.S. patent applications pending related to HAE program compounds, neuraminidase inhibitor compounds, BSAV and PNP compounds. Our pending applications may not result in issued patents, our patents may not cover the products of interest or may not be enforceable in all, or any jurisdictions and our patents may not provide us with sufficient protection against competitive products or otherwise be commercially viable. After expiration of composition of matter patents for our drug products, we may rely on data exclusivity or in some cases method of use patents. The enforceability of these patents varies from jurisdiction to jurisdiction and may not be allowed or enforceable in some territories where we may seek approval. We may not have the funds to continue patent prosecution or to defend all of our existing patents in our current patent estate and may selectively abandon patents or patent families worldwide or in certain territories.

Our success is also dependent upon the skills, knowledge and experience of our scientific and technical personnel, none of which is patentable. To help protect our rights, we require all employees, consultants, advisors and partners to enter into confidentiality agreements, which prohibit the disclosure of confidential information to anyone outside of our Company and, where possible, require disclosure and

assignment to us of their ideas, developments, discoveries and inventions. These agreements may not provide adequate protection for our trade secrets, know-how or other proprietary information in the event of any unauthorized use or disclosure or the lawful development by others of such information.

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Competition

The pharmaceutical and biotechnology industries are intensely competitive. Many companies, including biotechnology, chemical and pharmaceutical companies, are actively engaged in activities similar to ours, including research and development of drugs for the treatment of cancer, infectious, autoimmune, and inflammatory disorders. Many of these companies have substantially greater financial and other resources, larger research and development staffs, and more extensive marketing and manufacturing organizations than we do. In addition, some of them have considerable experience in preclinical testing, clinical trials and other regulatory approval procedures. There are also academic institutions, governmental agencies and other research organizations that are conducting research in areas in which we are working. They may also market commercial products, either on their own or through collaborative efforts. We expect to encounter significant competition for any of the pharmaceutical products we plan to develop. Companies that complete clinical trials, obtain required regulatory approvals and commence commercial sales of their products before their competitors may achieve a significant competitive advantage.

The pharmaceutical market for products that prevent or treat influenza is very competitive. Key competitive factors for i.v. peramivir include, among others, efficacy, ease of use, safety, price and cost-effectiveness, storage and handling requirements and reimbursement. A number of neuraminidase inhibitors are currently available in the U.S. and/or other countries, including Japan, for the prevention or treatment of influenza, including seasonal flu vaccines and F. Hoffmann-La Roche Ltd.'s ("Roche") TAMIFLU, GlaxoSmithKline plc's ("GSK") RELENZA and Daiichi Sankyo Co., Ltd.'s INAVIR[®], which is approved in Japan. Roche's neuraminidase inhibitor is also approved for prophylaxis of influenza, and both Roche and GSK have i.v. formulations in clinical trial development. In January 2011, GSK announced initiation of a multi-country Phase 3 study of intravenous zanamivir (the same active ingredient as in RELENZA) in hospitalized patients with influenza. Various government entities throughout the world are offering incentives, grants and contracts to encourage additional investment into preventative and therapeutic agents against influenza, which may have the effect of further increasing the number of our competitors and/or providing advantages to certain competitors.

In addition to these companies with neuraminidase inhibitors, there are other companies working to develop additional antiviral drugs to be used against various strains of influenza. In addition, several pharmaceutical and biotechnology firms, including major pharmaceutical companies, have announced efforts in the field of structure-based drug design and in the therapeutic areas of cancer, infectious disease, autoimmune, and inflammatory disorders, as well as other therapeutic areas where we are focusing our drug discovery efforts.

HAE is a rare, severely debilitating and potentially fatal genetic condition that occurs in about 1 in 10,000 to 1 in 50,000 people. Current treatments include potentially toxic oral anabolic steroids for prophylaxis or medicines that are delivered by injection or infusion to either prevent or treat acute attacks, including CINRYZE[®], which is an i.v. medication that has been approved by the FDA to prevent swelling and painful attacks in teenagers and adults. Daily, oral administration of a safe and efficacious prophylactic drug would revolutionize treatment for patients suffering from this serious condition. There are programs in various stages of development to either prevent or treat acute attacks.

BCX4430 is the lead compound in our BSAV program. The objective of the BSAV program is to develop broad-spectrum antiviral therapeutics for viruses that pose a threat to health and national security. The U.S. Government is investing in a number of programs intended to address gaps in its medical countermeasure plan.

In order to compete successfully in other therapeutic areas, we must develop proprietary positions in patented drugs for therapeutic markets that have not been satisfactorily addressed by conventional research strategies and, in the process, expand our expertise in structure-based drug design. Our products, even if successfully tested and developed, may not be adopted by physicians over other products and may not offer economically feasible alternatives to other therapies.

Research and Development

We initiated our research and development activities in 1986. We have assembled a scientific research staff with expertise in a broad base of advanced research technologies including protein biochemistry, X-ray crystallography, chemistry and pharmacology. Our research facilities include protein biochemistry and organic synthesis laboratories, testing facilities, X-ray crystallography, computer and graphics equipment and facilities to make product candidates on a small scale for early stage clinical trials. During the years ended December 31, 2013, 2012, and 2011, our research and development expenses were \$42.7 million, \$51.5 million and \$57.2 million, respectively.

Compliance

We conduct our business in an ethical, fair, honest and lawful manner. We act responsibly, respectfully and with integrity in our relationships with patients, health care professionals, collaborators, governments, regulatory entities, stockholders, suppliers and vendors.

In order to ensure compliance with applicable laws and regulations, our Chief Financial Officer, General Counsel and Vice President of Human Resources oversee compliance training, education, auditing and monitoring; enforce disciplinary guidelines for any infractions of our corporate policies; implement new policies and procedures; respond to any detected issues; and undertake corrective action procedures. Our controls address compliance with laws and regulations that govern public pharmaceutical companies including, but not limited to, the following: federal and state law, such as the Sarbanes-Oxley Act of 2002 and the U.S. Foreign Corrupt Practices Act of 1977; NASDAQ listing requirements; the regulations of the Financial Industry Regulatory Authority; the Securities and Exchange Commission; the FDA; and the United States Department of Health and Human Services. Our standard operating procedures are designed to provide a framework for corporate

governance in accordance with ethical standards and best legal practices.

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Government Regulation

The FDA regulates the pharmaceutical and biotechnology industries in the U.S., and our product candidates are subject to extensive and rigorous domestic government regulations prior to commercialization. The FDA regulates, among other things, the development, testing, manufacture, safety, efficacy, record-keeping, labeling, storage, approval, advertising, promotion, sale and distribution of pharmaceutical products. In foreign countries, our products are also subject to extensive regulation by foreign governments. These government regulations will be a significant factor in the production and marketing of any pharmaceutical products that we develop. Failure to comply with applicable FDA and other regulatory requirements at any stage during the regulatory process may subject us to sanctions, including:

- delays;
- warning letters;
- fines;
- product recalls or seizures;
- injunctions;
- penalties;
- refusal of the FDA to review pending market approval applications or supplements to approval applications;
- total or partial suspension of production;
- civil penalties;
- withdrawals of previously approved marketing applications; and
- criminal prosecutions.

The regulatory review and approval process is lengthy, expensive and uncertain. Before obtaining regulatory approvals for the commercial sale of any products, we or our partners must demonstrate that our product candidates are safe and effective for use in humans. The approval process takes many years, substantial expenses may be incurred and significant time may be devoted to clinical development.

Before testing potential candidates in humans, we carry out laboratory and animal studies to determine safety and biological activity. After completing preclinical trials, we must file an IND, including a proposal to begin clinical trials, with the FDA. Thirty days after filing an IND, a Phase 1 human clinical trial can start, unless the FDA places a hold on the trial.

Clinical trials to support a NDA are typically conducted in three sequential phases, but the phases may overlap.

Phase 1—During Phase 1, the initial introduction of the drug into healthy volunteers, the drug is tested to assess metabolism, pharmacokinetics and pharmacological actions and safety, including side effects associated with increasing doses.

Phase 2—Phase 2 usually involves trials in a limited patient population to: (1) assess the efficacy of the drug in specific, targeted indications; (2) assess dosage tolerance and optimal dosage; and (3) identify possible adverse effects and safety risks.

Phase 3—If a compound is found to be potentially effective and to have an acceptable safety profile in Phase 2 evaluations, Phase 3 clinical trials, also called pivotal studies, major studies or advanced clinical trials, are undertaken to further demonstrate clinical efficacy and to further test for safety within an expanded patient population at geographically dispersed clinical trial sites. In general, the FDA requires that at least two adequate and well-controlled Phase 3 clinical trials be conducted.

Initiation and completion of the clinical trial phases are dependent on several factors including things that are beyond our control. For example, the clinical trials cannot begin at a particular site until that site receives approval from its Institutional Review Board (“IRB”), which reviews the protocol and related documents. This process can take from several weeks to several months. In addition, clinical trials are dependent on patient enrollment, but the rate at which patients enroll in the study depends on:

- willingness of investigators to participate in a study;
- ability of clinical sites to obtain approval from their IRB;
- the availability of the required number of eligible subjects to be enrolled in a given trial;
- the availability of existing or other experimental drugs for the disease we intend to treat;
- the willingness of patients to participate; and
- the patients meeting the eligibility criteria.

Delays in planned patient enrollment may result in increased expense and longer development timelines.

After successful completion of the required clinical testing, generally an NDA is submitted. Upon receipt of the NDA, the FDA will review the application for completeness. Within 60 days, the FDA will determine if the application is sufficiently complete to warrant full review and will consider the application “filed” at that time. Also upon receipt of the application, the FDA will assign a review priority to the application. Priority review applications are usually reviewed within 8 months; standard review applications are usually reviewed within 12

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months. The FDA will usually refer NDAs for new molecular entities to an appropriate advisory committee for review and evaluation in regards to providing a recommendation as to whether the application should be approved. The FDA is not bound to follow the recommendation of an advisory committee.

Following the review of the application, which may include requests for additional information from the sponsor and results from inspections of manufacturing and clinical sites, the FDA will issue an “action letter” on the application. The action letter will either be an “approval letter,” in which case the product may be lawfully marketed in the United States, or a “complete response letter.” A complete response letter will state that the FDA cannot approve the NDA in its present form and, usually, will describe all of the specific deficiencies that the FDA has identified in the application. The complete response letter, when possible, will include the FDA’s recommended actions to place the application in a condition for approval. Deficiencies can be minor (e.g., labeling changes) or major (e.g., requiring additional clinical trials). A complete response letter may also be issued before the FDA conducts the required facility inspection and/or reviews labeling, leaving the possibility that additional deficiencies in the original NDA could be subsequently cited. An applicant receiving a complete response letter is permitted to resubmit the NDA addressing the identified deficiencies (in which case a new two or six month review cycle will begin), or withdraw the NDA. The FDA may consider a failure to take action within one year of a complete response letter to be a request to withdraw, unless the applicant has requested an extension of time in which to resubmit. If the FDA approves an NDA, the marketing of the product will be limited to the particular disease states and conditions of use that are described in the product label.

We and all of our contract manufacturers are also required to comply with the applicable FDA current Good Manufacturing Practice, or cGMP, regulations during clinical development and to ensure that the product can be consistently manufactured to meet the specifications submitted in an NDA. The cGMP regulations include requirements relating to product quality as well as the corresponding maintenance of records and documentation. Manufacturing facilities must be approved by the FDA before they can be used to manufacture our products. Based on an inspection, the FDA determines whether manufacturing facilities are in compliance with applicable regulations. Manufacturing facilities in non-United States countries that are utilized to manufacture drugs for distribution into the United States are also subject to inspection by the FDA. Additionally, failure to comply with local regulatory requirements could affect production and availability of product in relevant markets.

Human Resources

As of January 31, 2014, we had approximately 40 employees, of whom 26 were engaged in the research and development function of our operations. Our research and development staff, 15 of whom hold Ph.D. or M.D. degrees, have diversified experience in biochemistry, pharmacology, X-ray crystallography, synthetic organic chemistry, computational chemistry, medicinal chemistry, clinical development and regulatory affairs.

Our employees are not represented by any collective bargaining agreements, and we have never experienced a work stoppage. Employees are required to execute confidentiality and assignment of intellectual property agreements. We consider our relations with our employees to be satisfactory.

Available Information

We have available a website on the Internet. Our address is www.biocryst.com. We make available, free of charge, at our website our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act as soon as reasonably practicable after we electronically file such material with, or furnish it to, the SEC. We also make available at our website copies of our audit committee charter, compensation committee charter, corporate governance and nominating committee charter and our code of business conduct, which applies to all our employees as well as the members of our Board of Directors. Any amendment to, or waiver from, our code of business conduct will be posted on our website.

Financial Information

For information related to our revenues, profits, net loss and total assets, in addition to other financial information, please refer to the Financial Statements and Notes to Financial Statements contained in this Annual Report. Financial information about revenues derived from foreign countries is included in Note 1 to the Financial Statements contained in this Annual Report.

ITEM 1A. RISK FACTORS

An investment in our stock involves risks. You should carefully read this entire report and consider the following uncertainties and risks, which may adversely affect our business, financial condition or results of operations, along with all of the other information included in our other filings with the Securities and Exchange Commission, before deciding to buy our common stock.

Risks Relating to Our Business

We have incurred losses since our inception, expect to continue to incur such losses, and may never be profitable.

Since our inception, we have not achieved profitability. We expect to incur additional losses for the foreseeable future, and our losses could increase as our research and development efforts progress. We expect that such losses will fluctuate from quarter to quarter and losses and

fluctuations may be substantial.

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To become profitable, we, or our collaborative partners, must successfully manufacture and develop product candidates, receive regulatory approval, and successfully commercialize and/or enter into profitable agreements with other parties. It could be several years, if ever, before we receive significant royalties from any current or future license agreements or revenues directly from product sales.

Because of the numerous risks and uncertainties associated with developing our product candidates and their potential for commercialization, we are unable to predict the extent of any future losses. Even if we do achieve profitability, we may not be able to sustain or increase profitability on a quarterly or annual basis. If we are unable to achieve and sustain profitability, the market value of our common stock will likely decline.

Our success depends upon our ability to advance our products through the various stages of development, especially through the clinical trial process.

To receive the regulatory approvals necessary for the sale of our product candidates, we or our partners must demonstrate through preclinical studies and clinical trials that each product candidate is safe and effective. The clinical trial process is complex and uncertain. Because of the cost and duration of clinical trials, we may decide to discontinue development of product candidates that are unlikely to show good results in the clinical trials, unlikely to help advance a product to the point of a meaningful collaboration, or unlikely to have a reasonable commercial potential. We may suffer significant setbacks in pivotal clinical trials, even after earlier clinical trials show promising results. Clinical trials may not be adequately designed or executed, which could affect the potential outcome and analysis of study results. Any of our product candidates may produce undesirable side effects in humans. These side effects could cause us or regulatory authorities to interrupt, delay or halt clinical trials of a product candidate. These side effects could also result in the FDA or foreign regulatory authorities refusing to approve the product candidate for any targeted indications. We, our partners, the FDA or foreign regulatory authorities may suspend or terminate clinical trials at any time if we or they believe the trial participants face unacceptable health risks. Clinical trials may fail to demonstrate that our product candidates are safe or effective and have acceptable commercial viability. Regulatory authorities may interrupt, delay or halt clinical trials for a product candidate for any number or reasons.

Our ability to successfully complete clinical trials is dependent upon many factors, including but not limited to:

- our ability to find suitable clinical sites and investigators to enroll patients;
- the availability of and willingness of patients to participate in our clinical trials;
- difficulty in maintaining contact with patients to provide complete data after treatment;
- our product candidates may not prove to be either safe or effective (e.g., the ongoing Phase 2a trial for BCX4161 may not be successful);
- clinical protocols or study procedures may not be adequately designed or followed by the investigators;
- manufacturing or quality control problems could affect the supply of drug product for our trials; and
- delays or changes in requirements by governmental agencies.

Clinical trials are lengthy and expensive. We or our partners incur substantial expense for, and devote significant time to, preclinical testing and clinical trials, yet cannot be certain that the tests and trials will ever result in the commercial sale of a product. For example, clinical trials require adequate supplies of drug and sufficient patient enrollment. Lack of adequate drug supply or delays in patient enrollment, including in our planned clinical trials for HAE, can result in increased costs and longer development times. Even if we or our partners successfully complete clinical trials for our product candidates, we or our partners might not file the required regulatory submissions in a timely manner and may not receive regulatory approval for the product candidate, including with respect to our NDA filing for peramivir.

Our clinical trials may not adequately show that our drugs are safe or effective.

Progression of our drug products through the clinical development process is dependent upon our trials indicating our drugs have adequate safety and efficacy in the patients being treated by achieving pre-determined safety and efficacy endpoints according to the trial protocols. Failure to achieve either of these in any of our programs, including BCX4161, could result in delays in our trials or require the performance of additional unplanned trials. This could result in delays in the development of our product candidates and could result in significant unexpected costs or the termination of programs.

If we fail to reach milestones or to make annual minimum payments or otherwise breach our obligations under our license agreements, our licensors may terminate our agreements with them and seek additional remedies.

If we are unable or fail to meet payment obligations, performance milestones relating to the timing of regulatory filings, or development and commercial diligence obligations, are unable or fail to make milestone payments or material data use payments in accordance with applicable provisions, or fail to pay the minimum annual payments under our respective licenses, our licensors may terminate the applicable license or seek other available remedies. As a result, our development of the respective product candidate or commercialization of the product would cease.

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If we fail to obtain additional financing or acceptable partnership arrangements, we may be unable to complete the development and commercialization of our product candidates or continue operations.

As our programs advance, our costs are likely to increase. Our current and planned clinical trials plus the related development, manufacturing, regulatory approval process requirements, and additional personnel resources and testing required for supporting the development of our product candidates will consume significant capital resources. Our expenses, revenues and cash utilization rate could vary significantly depending on many factors, including: our ability to raise additional capital; the development progress of our collaborative agreements for our product candidates; the amount of funding we receive from BARDA/HHS for peramivir, NIAID/HHS or other government agencies for BCX4430 or from other new partnerships with third parties for the development of our product candidates, including ulodesine or BCX4161; the amount or profitability of any orders for peramivir or BCX4430 by any government agency or other party; the progress and results of our current and proposed clinical trials for our most advanced drug product candidates, including BCX4161; the progress made in the manufacturing of our lead products and the progression of our other programs. We expect that we will be required to enter into one or more acceptable partnership arrangements in order to complete the development of ulodesine for the treatment of gout.

We expect that we will be required to raise additional capital to complete the development and commercialization of our current product candidates and we may seek to raise capital at any time. Additional funding, whether through additional sales of securities or collaborative or other arrangements with corporate partners or from other sources, including governmental agencies in general and from any BARDA/HHS or NIAID/HHS contract specifically, may not be available when needed or on terms acceptable to us. The issuance of preferred or common stock or convertible securities, with terms and prices significantly more favorable than those of the currently outstanding common stock, could have the effect of diluting or adversely affecting the holdings or rights of our existing stockholders. In addition, collaborative arrangements may require us to transfer certain material rights to such corporate partners. Insufficient funds or lack of an acceptable partnership may require us to delay, scale-back or eliminate certain of our research and development programs.

In order to continue future operations and continue our drug development programs, we will be required to raise additional capital. In addition to seeking strategic partnerships, transactions and government funding, we may decide to access the equity or debt markets or seek other sources to meet liquidity needs. Our ability to raise additional capital may be limited and may greatly depend upon the success of ongoing development related to our current drug development programs, including the NDA filing for peramivir, the Phase 2a clinical trial of BCX4161, progress of our second generation HAE compounds, and funding for and continued successful development of BCX4430. In addition, constriction and volatility in the equity and debt markets may restrict our future flexibility to raise capital when such needs arise. Furthermore, we have exposure to many different industries, financing partners and counterparties, including commercial banks, investment banks and partners (which include investors, licensing partners, and the U.S. Government) which may be unstable or may become unstable in the current economic and political environment. Any such instability may impact these parties' ability to fulfill contractual obligations to us or they might limit or place burdensome conditions upon future transactions with us. Also, it is possible that suppliers may be negatively impacted. Any such unfavorable outcomes in our current programs or unfavorable economic conditions could place severe downward pressure on the stock and credit markets, which could reduce the return available on invested corporate cash, which if severe and sustained could have a material and adverse impact on our results of operations and cash flows and limit our ability to continue development of our product candidates.

If BARDA/HHS and NIAID/HHS were to eliminate, reduce or delay funding from our contract, this would have a significant negative impact on our revenues, cash flows.

Our projections of revenues and incoming cash flows are substantially dependent upon BARDA/HHS and NIAID/HHS reimbursement for the costs related to our peramivir and BCX4430 programs. If BARDA/HHS and NIAID/HHS were to eliminate, reduce or delay the funding for these programs or disallow some of our incurred costs, we would have to obtain additional funding for continued development or regulatory registration for these product candidates or significantly reduce or stop the development effort. Further, BARDA/HHS and NIAID/HHS may challenge actions that we have taken or may take under our contracts, which could negatively impact our operating results and cash flows.

In contracting with BARDA/HHS and NIAID/HHS, we are subject to various U.S. Government contract requirements, including general clauses for a cost-reimbursement research and development contract, which may limit our reimbursement or if we are found to be in violation could result in contract termination. U.S. Government contracts typically contain extraordinary provisions that would not typically be found in commercial contracts. For instance, government contracts permit unilateral modification by the government, interpretation of relevant regulations (i.e., federal acquisition regulation clauses), and the ability to terminate without cause. In addition, U.S. Government contracts are subject to an in-process review, where the U.S. Government will review the project and will consider its options under the contract. As such, we may be at a disadvantage as compared to other commercial contracts. U.S. Government contracts are subject to audit and modification by the government at its sole discretion. If the U.S. Government terminates its contract with us for its convenience, or if we default by failing to perform in accordance with the contract schedule and terms, significant negative impact on our cash flows and operations could result.

Our government contracts with BARDA/HHS and NIAID/HHS have special contracting requirements, which create additional risks of reduction or loss of funding.

We have entered into a contract with BARDA/HHS for the advanced development of our neuraminidase inhibitor, peramivir. We also have entered into a contract with NIAID/HHS for the development of BCX4430 as a treatment for Marburg virus disease. In contracting with these government agencies, we are subject to various U.S. Government contract requirements, including general clauses for a cost-reimbursement research and development contract, which may limit our reimbursement or if we are found to be in violation could result in contract termination. U.S. Government contracts typically contain extraordinary provisions that would not typically be found in commercial contracts. For instance,

government contracts permit unilateral modification by the government, interpretation of relevant regulations (i.e.,

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federal acquisition regulation clauses), and the ability to terminate without cause. In addition, U.S. Government contracts are subject to in-process review, where the U.S. Government will periodically review the project and will consider its options under the contract. As such, we may be at a disadvantage as compared to other commercial contracts.

U.S. Government contracts typically contain unfavorable termination provisions and are subject to audit and modification by the government at its sole discretion, each of which subjects us to additional risks. These risks include the ability of the U.S. Government to unilaterally:

- terminate or reduce the scope of our contract; and
- audit and object to our contract-related costs and fees, including allocated indirect costs.

The U.S. Government may terminate its contracts with us either for its convenience or if we default by failing to perform in accordance with the contract schedule and terms. Termination for convenience provisions generally enable us to recover only our costs incurred or committed, and settlement expenses and profit on the work completed prior to termination. Termination for default provisions do not permit these recoveries. In the event of termination or upon expiration of the contract, the U.S. Government may dispute wind down and termination costs and may question prior expenses under the contract and deny payment of those expenses. Should we choose to challenge the U.S. Government for denying certain payments under the contract, such a challenge could subject us to substantial additional expenses which we may or may not recover. Further, if the U.S. Government terminates its contract with us for its convenience, or if we default by failing to perform in accordance with the contract schedule and terms, significant negative impact on our cash flows and operations could result.

As a U.S. Government contractor, we are required to comply with applicable laws, regulations and standards relating to our accounting practices and are subject to periodic audits and reviews. As part of any such audit or review, the U.S. Government may review the adequacy of, and our compliance with, our internal control systems and policies, including those relating to our purchasing, property, estimating, compensation and management information systems. Audits conducted by the U.S. Government for the BARDA/HHS contract have been performed and concluded through fiscal 2009; all subsequent fiscal years are still open and auditable. Based on the results of its audits, the U.S. Government may adjust our contract-related costs and fees, including allocated indirect costs. This adjustment could impact the amount of revenues reported on a historic basis and could impact our cash flows under the contract prospectively. In addition, in the event BARDA/HHS or NIAID/HHS determines that certain costs and fees were unallowable or determines that the allocated indirect cost rate was higher than the actual indirect cost rate, BARDA/HHS or NIAID/HHS would be entitled to recoup any overpayment from us as a result. In addition, if an audit or review uncovers any improper or illegal activity, we may be subject to civil and criminal penalties and administrative sanctions, including termination of our contracts, forfeiture of profits, suspension of payments, fines and suspension or prohibition from doing business with the U.S. Government. We could also suffer serious harm to our reputation if allegations of impropriety were made against us. In addition, under U.S. Government purchasing regulations, some of our costs may not be reimbursable or allowed under our contracts. Further, as a U.S. Government contractor, we are subject to an increased risk of investigations, criminal prosecution, civil fraud, whistleblower lawsuits and other legal actions and liabilities as compared to private sector commercial companies.

If we fail to successfully commercialize or establish collaborative relationships to commercialize certain of our product candidates or if any partner terminates or fails to perform its obligations under agreements with us, potential revenues from commercialization of our product candidates could be reduced, delayed or eliminated.

Our business strategy is to increase the asset value of our product candidate portfolio. We believe this is best achieved by retaining full product rights or through collaborative arrangements with third parties as appropriate. As needed, potential third-party alliances could include preclinical development, clinical development, regulatory approval, marketing, sales and distribution of our product candidates.

Currently, we have established collaborative relationships with Mundipharma for the development and commercialization of forodesine and with each of Shionogi and Green Cross for the development and commercialization of peramivir. The process of establishing and implementing collaborative relationships is difficult, time-consuming and involves significant uncertainty, including:

- our partners may seek to renegotiate or terminate their relationships with us due to unsatisfactory clinical results, a change in business strategy, a change of control or other reasons;
- our contracts for collaborative arrangements may expire;
- our partners may choose to pursue alternative technologies, including those of our competitors;
- we may have disputes with a partner that could lead to litigation or arbitration;
- we do not have day to day control over the activities of our partners and have limited control over their decisions;
- our ability to generate future event payments and royalties from our partners depends upon their abilities to establish the safety and efficacy of our product candidates, obtain regulatory approvals and achieve market acceptance of products developed from our product candidates;
- we or our partners may fail to properly initiate, maintain or defend our intellectual property rights, where applicable, or a party may utilize our proprietary information in such a way as to invite litigation that could jeopardize or potentially invalidate our proprietary information or expose us to potential liability;

- our partners may not devote sufficient capital or resources towards our product candidates; and
- our partners may not comply with applicable government regulatory requirements.

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If we or our partners fail to fulfill our responsibilities in a timely manner, or at all, our commercialization efforts related to that collaboration could be reduced, delayed or terminated, or it may be necessary for us to assume responsibility for activities that would otherwise have been the responsibility of our partner. If we are unable to establish and maintain collaborative relationships on acceptable terms, we may have to delay or discontinue further development of one or more of our product candidates, undertake commercialization activities at our own expense or find alternative sources of funding. Any delay in the development or commercialization of our product candidates would severely affect our business, because if our product candidates do not progress through the development process or reach the market in a timely manner, or at all, we may not receive additional future event payments and may never receive milestone, product sales or royalty payments.

We have not commercialized any products or technologies and our future revenue generation is uncertain.

We have not commercialized any products or technologies, and we may never be able to do so. We currently have no marketing capability and no direct or third-party sales or distribution capabilities and may be unable to establish these capabilities for products we plan to commercialize. In addition, our revenue from collaborative agreements is dependent upon the status of our preclinical and clinical programs. If we fail to advance these programs to the point of being able to enter into successful collaborations, we will not receive any future event or other collaborative payments.

Our ability to receive revenue from products we commercialize presents several risks, including:

- we or our collaborators may fail to successfully complete clinical trials sufficient to obtain FDA marketing approval;
- many competitors are more experienced, have significantly more resources and, their products could reach the market before ours, be more cost effective or have a better efficacy or tolerability profile than our product candidates;
- we may fail to employ a comprehensive and effective intellectual property strategy, which could result in decreased commercial value of our Company and our products;
- we may fail to employ a comprehensive and effective regulatory strategy, which could result in a delay or failure in commercialization of our products;
- our ability to successfully commercialize our products is affected by the competitive landscape, which cannot be fully known at this time;
- reimbursement is constantly changing, which could greatly affect usage of our products; and
- any future revenue from product sales would depend on our ability to successfully complete clinical studies, obtain regulatory approvals, and manufacture, market and commercialize any approved drugs.

If our development collaborations with third parties, such as our development partners and contract research organizations, fail, the development of our product candidates will be delayed or stopped.

We rely heavily upon other parties for many important stages of our product candidate development, including but not limited to:

- discovery of compounds that cause or enable biological reactions necessary for the progression of the disease or disorder, called enzyme targets;
- licensing or design of enzyme inhibitors for development as product candidates;
- execution of some preclinical studies and late-stage development for our compounds and product candidates;
- management of our clinical trials, including medical monitoring and data management;
- execution of additional toxicology studies that may be required to obtain approval for our product candidates; and
- manufacturing the starting materials and drug substance required to formulate our drug products and the product candidates to be used in both our clinical trials and toxicology studies.

Our failure to engage in successful collaborations at any one of these stages would greatly impact our business. If we do not license enzyme targets or inhibitors from academic institutions or from other biotechnology companies on acceptable terms, our drug development efforts would suffer. Similarly, if the contract research organizations that conduct our initial or late-stage clinical trials, conduct our toxicology studies, manufacture our starting materials, drug substance and drug products or manage our regulatory function breached their obligations to us or perform their services inconsistent with industry standards and not in accordance with the required regulations, this would delay or prevent the development of our product candidates.

If we lose our relationship with any one or more of these parties, we could experience a significant delay in both identifying another comparable provider and then contracting for its services. We may be unable to retain an alternative provider on reasonable terms, if at all. Even if we locate an alternative provider, it is likely that this provider may need additional time to respond to our needs and may not provide the same type or level of service as the original provider. In addition, any provider that we retain will be subject to applicable FDA current Good Laboratory Practices (“cGLP”), current Good Manufacturing Practices (“cGMP”) and current Good Clinical Practices (“cGCP”), and

comparable foreign standards. We do not have control over compliance with these regulations by these providers. Consequently, if these practices and standards are not adhered to by these providers, the development and commercialization of our product candidates could be delayed, and our business, financial condition and results of operations could be materially adversely affected.

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Our development of peramivir for influenza is subject to all disclosed drug development and potential commercialization risks and numerous additional risks. Any potential revenue benefits to us are highly speculative.

Further development and potential commercialization of peramivir is subject to all the risks and uncertainties disclosed in our other risk factors relating to drug development and commercialization. In addition, potential commercialization of peramivir is subject to further risks, including but not limited to the following:

- i.v. peramivir may not prove to be safe and sufficiently effective for market approval in the United States or other major markets;
- necessary government or other third party funding and clinical testing for further development of peramivir may not be available timely, at all, or in sufficient amounts;
- flu prevention or pandemic treatment concerns may not materialize at all, or in the near future;
- advances in flu vaccines or other antivirals, including competitive i.v. antivirals, could substantially replace potential demand for peramivir;
- any substantial demand for pandemic or seasonal flu treatments may occur before peramivir can be adequately developed and tested in clinical trials;
- peramivir may not prove to be accepted by patients and physicians as a treatment for seasonal influenza compared to the other currently marketed antiviral drugs, which would limit revenue from non-governmental entities;
- numerous large and well-established pharmaceutical and biotech companies will be competing to meet the market demand for flu drugs and vaccines;
- the only major markets in which patents relating to peramivir have issued or been allowed are the United States, Canada, Japan, Australia and many contracting and extension states of the European Union, while no patent applications or issued patents for peramivir exist in other potentially significant markets;
- regulatory authorities may not make needed accommodations to accelerate the drug testing and approval process for peramivir; and
- in the next few years, it is expected that a limited number of governmental entities will be the primary potential customers for peramivir and if we are not successful at marketing peramivir to these entities for any reason, we will not receive substantial revenues from stockpiling orders from these entities.

If any or all of these and other risk factors occur, we will not attain significant revenues or gross margins from peramivir and our stock price will be adversely affected.

There are risks related to the potential emergency use or sale of peramivir.

To the extent that peramivir is used as a treatment for influenza, there can be no assurance that it will prove to be generally safe, well-tolerated and effective. Emergency use of peramivir may create certain liabilities for us. There is no assurance that we or our manufacturers will be able to fully meet the demand for peramivir in the event of additional orders. Further, we may not achieve a favorable price for additional orders of peramivir in the U.S. or in any other country. Our competitors may develop products that could compete with or replace peramivir. We may face competition in markets where we have no existing intellectual property protection or are unable to successfully enforce our intellectual property rights.

There is no assurance that the non-U.S. partnerships that we have entered into for peramivir will result in any order for peramivir in those countries. There is no assurance that peramivir will be approved for emergency use or will achieve market approval in additional countries. In the event that any emergency use is granted, there is no assurance that any order by any non-U.S. partnership will be substantial or will be profitable to us. The sale of peramivir, emergency use or other use of peramivir in any country may create certain liabilities for us.

Because we have limited manufacturing experience, we depend on third-party manufacturers to manufacture our product candidates and the materials for our product candidates. If we cannot rely on third-party manufacturers, we will be required to incur significant costs and potential delays in finding new third-party manufacturers.

We have limited manufacturing experience and only a small scale manufacturing facility. We currently rely upon third-party manufacturers to manufacture the materials required for our product candidates and most of the preclinical and clinical quantities of our product candidates. We depend on these third-party manufacturers to perform their obligations in a timely manner and in accordance with applicable governmental regulations. Our third-party manufacturers may encounter difficulties with meeting our requirements, including but not limited to problems involving:

- inconsistent production yields;
- product liability claims;
- difficulties in scaling production to commercial and validation sizes;

- interruption of the delivery of materials required for the manufacturing process;
- scheduling of plant time with other vendors or unexpected equipment failure;

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- potential catastrophes that could strike their facilities or have an effect on infrastructure;
- potential impurities in our drug substance or drug products that could affect availability of product for our clinical trials or future commercialization;
- poor quality control and assurance or inadequate process controls; and
- lack of compliance or cooperation with regulations and specifications or requests set forth by the FDA or other foreign regulatory agencies, particularly associated with our pending peramivir NDA.

These contract manufacturers may not be able to manufacture the materials required for our product candidates at a cost or in quantities necessary to make them commercially viable. We also have no control over whether third-party manufacturers breach their agreements with us or whether they may terminate or decline to renew agreements with us. To date, our third-party manufacturers have met our manufacturing requirements, but they may not continue to do so. Furthermore, changes in the manufacturing process or procedure, including a change in the location where the drug is manufactured or a change of a third-party manufacturer, may require prior review and approval in accordance with the FDA's cGMP and comparable foreign requirements. This review may be costly and time-consuming and could delay or prevent the launch of a product. The FDA or similar foreign regulatory agencies at any time may also implement new standards, or change their interpretation and enforcement of existing standards for manufacture, packaging or testing of products. If we or our contract manufacturers are unable to comply, we or they may be subject to regulatory action, civil actions or penalties.

If we are unable to maintain current manufacturing or other contract relationships, or enter into new agreements with additional manufacturers on commercially reasonable terms, or if there is poor manufacturing performance or failure to comply with any regulatory agency on the part of any of our third-party manufacturers, we may not be able to complete development of, seek timely approval of, or market, our product candidates.

Our raw materials, drug substances, and drug products are manufactured by a limited group of suppliers and some at a single facility. If any of these suppliers were unable to produce these items, this could significantly impact our supply of product candidate material for further preclinical testing and clinical trials.

Royalties and milestone payments from Shionogi under the Shionogi Agreement will be required to be used by Royalty Sub to service its obligations under its PhaRMA Notes, and generally will not be available to us for other purposes until Royalty Sub has repaid in full its obligations under the PhaRMA Notes.

In March 2011, our wholly-owned subsidiary Royalty Sub issued \$30.0 million in aggregate principal amount of PhaRMA Notes. The PhaRMA Notes are secured principally by (i) certain royalty and milestone payments under the Shionogi Agreement, pursuant to which Shionogi licensed from us the rights to market peramivir in Japan and, if approved for commercial sale, Taiwan, (ii) rights to certain payments under a Japanese yen/U.S. dollar foreign currency hedge arrangement put into place by us in connection with the issuance of the PhaRMA Notes and (iii) the pledge by us of our equity interest in Royalty Sub. Payments from Shionogi to us under the Shionogi Agreement will generally not be available to us for other purposes until Royalty Sub has repaid in full its obligations under the PhaRMA Notes. Accordingly, these funds will be required to be dedicated to Royalty Sub's debt service and not available to us for product development or other purposes.

If royalties from Shionogi are insufficient for Royalty Sub to make payments under the PhaRMA Notes or if an event of default occurs under the PhaRMA Notes, the holders of the PhaRMA Notes may be able to foreclose on the collateral securing the PhaRMA Notes and our equity interest in Royalty Sub, in which case we may not realize the benefit of future royalty payments that might otherwise accrue to us following repayment of the PhaRMA Notes.

Royalty Sub's ability to service its payment obligations in respect of the PhaRMA Notes, and our ability to benefit from our equity interest in Royalty Sub, is subject to numerous risks. Peramivir was first approved for marketing and manufacturing in Japan in October 2009 and has been offered for sale in Japan only since January 2010. As a result, there is very little sales history for peramivir in Japan, and there can be no assurance that peramivir will gain market acceptance in the Japanese market. In addition, Shionogi's sales of peramivir are expected to be highly seasonal and vary significantly from year to year, and the market for products to treat or prevent influenza is highly competitive. Under our license agreement with Shionogi, Shionogi has control over the commercial process for peramivir in Japan and Taiwan. Royalty Sub's ability to service the PhaRMA Notes may be adversely affected by, among other things, changes in or any termination of our relationship with Shionogi, reimbursement, regulatory, manufacturing and/or intellectual property issues, product returns, product recalls, product liability claims and allegations of safety issues, as well as other factors. In the event that for any reason Royalty Sub is unable to service its obligations under the PhaRMA Notes or an event of default were to occur under the PhaRMA Notes, the holders of the PhaRMA Notes may be able to foreclose on the collateral securing the PhaRMA Notes and our equity interest in Royalty Sub and exercise other remedies available to them under the indenture in respect of the PhaRMA Notes. In such event, we may not realize the benefit of future royalty payments that might otherwise accrue to us following repayment of the PhaRMA Notes and we might otherwise be adversely affected.

On September 3, 2013, we paid \$1.8 million of interest on the PhaRMA Notes from royalty payments received from RAPIACTA[®] sales from the preceding four calendar quarters. This payment resulted in an obligation shortfall of \$2.4 million associated with accrued interest due September 3, 2013. As stipulated under the PhaRMA Notes indenture, if the amount available for payment is insufficient to pay all of the interest due on a Payment Date, the shortfall in interest will accrue interest at the interest rate applicable to the PhaRMA Notes compounded annually.

Accordingly, commencing on September 3, 2013, we began accruing interest at 14% per annum on the interest shortfall of \$2.4 million. Under the terms of the indenture relating to the PhaRMA Notes, the inability to pay the full amount of interest payable on September 3,

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2013 did not constitute an event of default under the PhaRMA Notes unless we fail to pay such unpaid interest, plus interest thereon, on or prior to the next succeeding Payment Date for the PhaRMA Notes, which is September 1, 2014. Based on sales forecasts of RAPIACTA[®] provided to us by Shionogi, we currently estimate sufficient royalties will be received to fund the September 3, 2013 interest shortfall prior to September 1, 2014; however, no assurances can be given that these royalties will be received and available for payment of the interest shortfall.

Shionogi's failure to successfully market and commercialize peramivir in Japan would have a material adverse effect on Royalty Sub's ability to service its obligations on the PhaRMA Notes.

The successful commercialization of peramivir in Japan depends on the efforts of Shionogi and is beyond the control of us or Royalty Sub. As discussed above, peramivir has only recently been introduced into the Japanese market, and there can be no assurance that peramivir will gain market acceptance in Japan. Future sales by Shionogi will depend on many factors, including the incidence and severity of seasonal influenza in Japan each year (both of which can vary very significantly from year to year), the perceived and actual efficacy and safety of peramivir, the experience of physicians and patients with peramivir, continued market acceptance, continued availability of supply, competition, sales and marketing efforts, governmental regulation and pricing and reimbursement in Japan. Shionogi is responsible for the marketing and sale of peramivir in Japan, including with respect to the pricing of peramivir in that market. There are no minimum royalties, sales levels or other performance measures required of Shionogi under the Shionogi Agreement and Shionogi could in its sole discretion reduce or cease its sale efforts of peramivir in Japan, subject to its covenant in the Shionogi Agreement to use diligent efforts to commercialize peramivir in Japan. If Shionogi is unable to, or fails to, successfully market and commercialize peramivir, it would have a material adverse effect on Royalty Sub's ability to service its obligations under the PhaRMA Notes and our ability to benefit from our equity interest in Royalty Sub.

We may be required to pay significant premiums under the foreign Currency Hedge Agreement entered into by us in connection with the issuance of the PhaRMA Notes. In addition, because our potential obligations under the foreign currency hedge are marked to market, we may experience additional quarterly volatility in our operating results and cash flows attributable to the foreign Currency Hedge Agreement.

In connection with the issuance by Royalty Sub of the PhaRMA Notes, we entered into a foreign Currency Hedge Agreement to hedge certain risks associated with changes in the value of the Japanese yen relative to the U.S. dollar. Under the Currency Hedge Agreement, we may be required to pay a premium in the amount of \$2.0 million in each year beginning in May 2014 and, provided the Currency Hedge Agreement remains in effect, continuing through May 2020. Such payment will be required if, in May of the relevant year, the spot rate of exchange for Japanese yen-U.S. dollars (determined in accordance with the Currency Hedge Agreement) is such that the U.S. dollar is worth 100 yen or less. We will be required to mark to market our potential obligations under the currency hedge and post cash collateral, which may cause us to experience additional quarterly volatility in our operating results and cash flows as a result. Additionally, we may be required to pay significant premiums or a termination fee under the foreign currency hedge agreement entered into by us in connection with the issuance of the PhaRMA Notes.

If we or our partners do not obtain and maintain governmental approvals for our products under development, we or our partners will not be able to sell these potential products, which would significantly harm our business because we will receive no revenue.

We or our partners must obtain regulatory approval before marketing or selling our future drug products. If we or our partners are unable to receive regulatory approval and do not market or sell our future drug products, we will never receive any revenue from such product sales. In the United States, we or our partners must obtain FDA approval for each drug that we intend to commercialize. The process of preparing for and obtaining FDA approval may be lengthy and expensive, and approval is never certain. Products distributed abroad are also subject to foreign government regulation and export laws of the U.S. The FDA has not approved any of our product candidates. Because of the risks and uncertainties in biopharmaceutical development, our product candidates could take a significantly longer time to gain regulatory approval than we expect or may never gain approval. If the FDA delays regulatory approval of our product candidates, our management's credibility, our company's value and our operating results may suffer. Even if the FDA or foreign regulatory agencies approve a product candidate, the approval may limit the indicated uses for a product candidate and/or may require post-marketing studies.

The FDA regulates, among other things, the record keeping and storage of data pertaining to potential pharmaceutical products. We currently store most of our preclinical research data, our clinical data and our manufacturing data at our facility. While we do store duplicate copies of most of our clinical data offsite and a significant portion of our data is included in regular backups of our systems, we could lose important data if our facility incurs damage, or if our vendor data systems fail, suffer damage or are destroyed. If we receive approval to market our potential products, whether in the United States or internationally, we will continue to be subject to extensive regulatory requirements. These requirements are wide ranging and govern, among other things:

- adverse drug experience reporting regulations;
- product promotion;
- product manufacturing, including good manufacturing practice requirements; and
- product changes or modifications.

Our failure to comply with existing or future regulatory requirements, or our loss of, or changes to, previously obtained approvals, could have a material adverse effect on our business because we will not receive product or royalty revenues if we or our partners do not receive

approval of our products for marketing.

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We face intense competition, and if we are unable to compete effectively, the demand for our products, if any, may be reduced.

The biotechnology and pharmaceutical industries are highly competitive and subject to rapid and substantial technological change. There are many companies seeking to develop products for the same indications that we are working on. Our competitors in the United States and elsewhere are numerous and include, among others, major multinational pharmaceutical and chemical companies and specialized biotechnology firms. Most of these competitors have greater resources than we do, including greater financial resources, larger research and development staffs and more experienced marketing and manufacturing organizations. In addition, most of our competitors have greater experience than we do in conducting clinical trials and obtaining FDA and other regulatory approvals. Accordingly, our competitors may succeed in obtaining FDA or other regulatory approvals of product candidates more rapidly than we do. Companies that complete clinical trials, obtain required regulatory approvals, and commence commercial sale of their drugs before we do may achieve a significant competitive advantage, including patent and FDA exclusivity rights that would delay our ability to market products. We face, and will continue to face, competition in the licensing of desirable disease targets, licensing of desirable product candidates, and development and marketing of our product candidates from academic institutions, government agencies, research institutions and biotechnology and pharmaceutical companies. Competition may also arise from, among other things:

- other drug development technologies;
- methods of preventing or reducing the incidence of disease, including vaccines; and
- new small molecule or other classes of therapeutic agents.

Developments by others may render our product candidates or technologies obsolete or noncompetitive.

We and our partners are performing research on or developing products for the treatment of several disorders including influenza, gout, HAE, and recurrent/refractory peripheral T-cell lymphoma, as well as broad-spectrum antivirals which may be developed as medical countermeasures. We expect to encounter significant competition for any of the pharmaceutical products we plan to develop. Companies that complete clinical trials, obtain required funding or government support, obtain required regulatory approvals and commence commercial sales or stockpiling orders of their products before their competitors may achieve a significant competitive advantage. Such is the case with Eisai Co. Ltd.'s TARGRETIN[®] for cutaneous T-cell lymphoma and the current neuraminidase inhibitors marketed by GSK and Roche for influenza and CINRYZE[®] and FIRAZYR[®] for HAE marketed by Shire Pharmaceuticals, Inc. Both Roche and GSK may have i.v. formulations of neuraminidase inhibitors for influenza in clinical trial development. Further, several pharmaceutical and biotechnology firms, including major pharmaceutical companies and specialized structure-based drug design companies, have announced efforts in the field of structure-based drug design and in the fields of PNP, influenza, HAE, and in other therapeutic areas where we have discovery efforts ongoing. If one or more of our competitors' products or programs are successful, the market for our products may be reduced or eliminated.

Compared to us, many of our competitors and potential competitors have substantially greater:

- capital resources;
- research and development resources, including personnel and technology;
- regulatory experience;
- preclinical study and clinical testing experience;
- manufacturing and marketing experience; and
- production facilities.

Any of these competitive factors could impede our funding efforts, render technology and product candidates non-competitive or eliminate or reduce demand for our product candidates.

If we fail to adequately protect or enforce our intellectual property rights or secure rights to patents of others, the value of those rights would diminish.

Our success will depend in part on our ability and the abilities of our partners to obtain, protect and enforce viable intellectual property rights including but not limited to trade name, trademark and patent protection for our Company and its products, methods, processes and other technologies we may license or develop, to preserve our trade secrets, and to operate without infringing the proprietary rights of third parties both domestically and abroad. The patent position of biotechnology and pharmaceutical companies is generally highly uncertain, involves complex legal and factual questions and has recently been the subject of much litigation. Neither the United States Patent and Trademark Office ("USPTO"), the Patent Cooperation Treaty offices, nor the courts of the U.S. and other jurisdictions have consistent policies nor predictable rulings regarding the breadth of claims allowed or the degree of protection afforded under many biotechnology and pharmaceutical patents. Further, we may not have worldwide patent protection for all of our product candidates and our intellectual property rights may not be legally protected or enforceable in all countries throughout the world. In some jurisdictions, some of our product candidates in certain programs, including our HAE program, may have short or no composition of matter patent life and we may therefore rely on orphan drug exclusivity or data exclusivity. There can be no guarantee that we will obtain orphan drug exclusivity or data exclusivity in every jurisdiction. Further, in some jurisdictions, we may rely on formulation patents or method of use patents. Both the ability to achieve issuance and enforcement of formulation

and method of use patents can be highly uncertain and can vary from jurisdiction to jurisdiction and such patents may therefore not adequately prevent competitors and potential infringers in some jurisdictions. The validity, scope, enforceability and commercial value of the rights protected by such patents, therefore, is highly uncertain.

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We also rely on trade secrets to protect technology in cases when we believe patent protection is not appropriate or obtainable. However, trade secrets are difficult to protect. If we cannot maintain the confidentiality of our technology and other confidential information in connection with our collaborators and advisors, our ability to receive patent protection or protect our proprietary information may be imperiled.

Our success depends in part on avoiding the infringement of other parties' patents and other intellectual property rights as well as avoiding the breach of any licenses relating to our technologies and products. In the U.S., patent applications filed in recent years are confidential for 18 months, while older applications are not published until the patent issues. As a result, avoiding patent infringement may be difficult and we may inadvertently infringe third-party patents or proprietary rights. These third parties could bring claims against us, our partners or our licensors that even if resolved in our favor, could cause us to incur substantial expenses and, if resolved against us, could additionally cause us to pay substantial damages. Further, if a patent infringement suit were brought against us, our partners or our licensors, we or they could be forced to stop or delay research, development, manufacturing or sales of any infringing product in the country or countries covered by the patent we infringe, unless we can obtain a license from the patent holder. Such a license may not be available on acceptable terms, or at all, particularly if the third party is developing or marketing a product competitive with the infringing product. Even if we, our partners or our licensors were able to obtain a license, the rights may be nonexclusive, which would give our competitors access to the same intellectual property.

If we or our partners are unable or fail to adequately initiate, protect, defend or enforce our intellectual property rights in any area of commercial interest or in any part of the world where we wish to seek regulatory approval for our products, methods, processes and other technologies, the value of the product candidates to produce revenue would diminish. Additionally, if our products, methods, processes, and other technologies or our commercial use of such products, processes, and other technologies, including but not limited to any trade name, trademark or commercial strategy infringe the proprietary rights of other parties, we could incur substantial costs. The USPTO and the patent offices of other jurisdictions have issued to us a number of patents for our various inventions and we have in-licensed several patents from various institutions. We have filed additional patent applications and provisional patent applications with the USPTO. We have filed a number of corresponding foreign patent applications and intend to file additional foreign and U.S. patent applications, as appropriate. We have also filed certain trademark and trade name applications worldwide. We cannot assure you as to:

- the degree and range of protection any patents will afford against competitors with similar products;
- if and when patents will issue;
- if patents do issue we cannot be sure that we will be able to adequately defend such patents and whether or not we will be able to adequately enforce such patents; or
- whether or not others will obtain patents claiming aspects similar to those covered by our patent applications.

If the USPTO or other foreign patent office upholds patents issued to others or if the USPTO grants patent applications filed by others, we may have to:

- obtain licenses or redesign our products or processes to avoid infringement;
- stop using the subject matter claimed in those patents; or
- pay damages.

We may initiate, or others may bring against us, litigation or administrative proceedings related to intellectual property rights, including proceedings before the USPTO or other foreign patent office. Any judgment adverse to us in any litigation or other proceeding arising in connection with a patent or patent application could materially and adversely affect our business, financial condition and results of operations. In addition, the costs of any such proceeding may be substantial whether or not we are successful.

Our success is also dependent upon the skills, knowledge and experience, none of which is patentable, of our scientific and technical personnel. To help protect our rights, we require all employees, consultants, advisors and partners to enter into confidentiality agreements that prohibit the disclosure of confidential information to anyone outside of our company and require disclosure and assignment to us of their ideas, developments, discoveries and inventions. These agreements may not provide adequate protection for our trade secrets, know-how or other proprietary information in the event of any unauthorized use or disclosure or the lawful development by others of such information, and if any of our proprietary information is disclosed, our business will suffer because our revenues depend upon our ability to license or commercialize our product candidates and any such events would significantly impair the value of such product candidates.

There is a substantial risk of product liability claims in our business. If we are unable to obtain sufficient insurance, a product liability claim against us could adversely affect our business.

We face an inherent risk of product liability exposure related to the testing of our product candidates in human clinical trials and will face even greater risks upon any commercialization by us of our product candidates. We have product liability insurance covering our clinical trials. Clinical trial and product liability insurance is becoming increasingly expensive. As a result, we may be unable to obtain sufficient insurance or increase our existing coverage at a reasonable cost to protect us against losses that could have a material adverse effect on our business. An individual may bring a product liability claim against us if one of our products or product candidates causes, or is claimed to have caused, an injury or is found to be unsuitable for consumer use. Any product liability claim brought against us, with or without merit, could result in:

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- liabilities that substantially exceed our product liability insurance, which we would then be required to pay from other sources, if available;
- an increase of our product liability insurance rates or the inability to maintain insurance coverage in the future on acceptable terms, or at all;
- withdrawal of clinical trial volunteers or patients;
- damage to our reputation and the reputation of our products, resulting in lower sales;
- regulatory investigations that could require costly recalls or product modifications;
- litigation costs; and
- the diversion of management's attention from managing our business.

Insurance coverage is increasingly more costly and difficult to obtain or maintain.

While we currently have insurance for our business, property, directors and officers, and our products, insurance is increasingly more costly and narrower in scope, and we may be required to assume more risk in the future. If we are subject to claims or suffer a loss or damage in excess of our insurance coverage, we will be required to bear any loss in excess of our insurance limits. If we are subject to claims or suffer a loss or damage that is outside of our insurance coverage, we may incur significant uninsured costs associated with loss or damage that could have an adverse effect on our operations and financial position. Furthermore, any claims made on our insurance policies may impact our ability to obtain or maintain insurance coverage at reasonable costs or at all.

If our facility incurs damage or power is lost for a significant length of time, our business will suffer.

We store clinical and stability samples at our facility that could be damaged if our facility incurs physical damage or in the event of an extended power failure. We have backup power systems in addition to backup generators to maintain power to all critical functions, but any loss of these samples could result in significant delays in our drug development process.

In addition, we store most of our preclinical and clinical data at our facilities. Duplicate copies of most critical data are secured off-site. Any significant degradation or failure of our computer systems could cause us to inaccurately calculate or lose our data. Loss of data could result in significant delays in our drug development process and any system failure could harm our business and operations.

If we fail to retain our existing key personnel or fail to attract and retain additional key personnel, the development of our product candidates and the expansion of our business will be delayed or stopped.

We are highly dependent upon our senior management and scientific team, the unexpected loss of whose services might impede the achievement of our development and commercial objectives. Competition for key personnel with the experience that we require is intense and is expected to continue to increase. Our inability to attract and retain the required number of skilled and experienced management, operational and scientific personnel will harm our business because we rely upon these personnel for many critical functions of our business.

Our existing principal stockholders hold a substantial amount of our common stock and may be able to influence significant corporate decisions, which may conflict with the interest of other stockholders.

We have a number of shareholders who own greater than 5% of our outstanding common stock. These stockholders, if they act together, may be able to influence the outcome of matters requiring approval of the stockholders, including the election of our directors and other corporate actions.

Our stock price has been, and is likely to continue to be, highly volatile, which could result in the value of an investment to decline significantly.

The market prices for securities of biotechnology companies in general have been highly volatile and may continue to be highly volatile in the future. Moreover, our stock price has fluctuated frequently, and these fluctuations are often not related to our financial results. For the twelve months ended December 31, 2013, the 52-week range of the market price of our stock was from \$1.12 to \$7.84 per share. The following factors, in addition to other risk factors described in this section, may have a significant impact on the market price of our common stock:

- announcements of technological innovations or new products by us or our competitors;
- developments or disputes concerning patents or proprietary rights;
- additional dilution through sales of our common stock or other derivative securities;
- status of new or existing licensing or collaborative agreements and government contracts;
- announcements relating to the status of our programs;

- developments and announcements regarding new and virulent strains of influenza;

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- we or our partners achieving or failing to achieve development milestones;
- publicity regarding actual or potential medical results relating to products under development by us or our competitors;
- publicity regarding certain public health concerns for which we are or may be developing treatments;
- regulatory developments in both the United States and foreign countries;
- public concern as to the safety of pharmaceutical products;
- actual or anticipated fluctuations in our operating results;
- changes in financial estimates or recommendations by securities analysts;
- changes in the structure of healthcare payment systems, including developments in price control legislation;
- announcements by us or our competitors of significant acquisitions, strategic partnerships, joint ventures or capital commitments;
- additions or departures of key personnel or members of our board of directors;
- purchases or sales of substantial amounts of our stock by existing stockholders, including officers or directors;
- economic and other external factors or other disasters or crises; and
- period-to-period fluctuations in our financial results.

Future sales and issuances of securities may dilute the ownership interests of our current stockholders and cause our stock price to decline.

Future sales of our common stock by current stockholders into the public market could cause the market price of our stock to fall. As of January 31, 2014, there were 59,384,525 shares of our common stock outstanding. We may from time to time issue securities in relation to a license arrangement, collaboration, merger or acquisition.

In addition, on November 6, 2013, we filed with the SEC a shelf registration statement on Form S-3. This shelf registration statement has been declared effective and allows us to sell up to \$125 million of securities, including common stock, preferred stock, depository shares, stock purchase contracts, warrants and units, from time to time at prices and on terms to be determined at the time of sale.

On June 28, 2011, we filed with the SEC a shelf registration statement on Form S-3. This shelf registration statement will remain effective until July 2014 and allows us to sell up to \$70 million of securities, including common stock, preferred stock, depository shares, stock purchase contracts and warrants, from time to time at prices and on terms to be determined at the time of sale. As of December 31, 2013, we have issued approximately \$24.9 million of common stock under this shelf registration statement using an ATM facility. In addition, we issued 4,600,000 shares of common stock for gross proceeds of \$20.2 million under this shelf registration statement on August 6, 2013 in a public offering.

As of January 31, 2014, there were 10,088,982 stock options and restricted stock units outstanding and 101,667 shares available for issuance under our Amended and Restated Stock Incentive Plan and 59 shares available for issuance under our Employee Stock Purchase Plan, and we could also make equity compensation grants outside of our Stock Incentive Plan. The shares underlying existing stock options and restricted stock and possible future stock options, stock appreciation rights and stock awards have been registered pursuant to registration statements on Form S-8.

If some or all of such shares are sold or otherwise issued into the public market over a short period of time, our current stockholders' ownership interests may be diluted and the value of all publicly traded shares is likely to decline, as the market may not be able to absorb those shares at then-current market prices. Additionally, such sales and issuances may make it more difficult for us to sell equity securities or equity-related securities in the future at a time and price that our management deems acceptable, or at all.

If, because of our use of hazardous materials, we violate any environmental controls or regulations that apply to such materials, we may incur substantial costs and expenses in our remediation efforts.

Our research and development involves the controlled use of hazardous materials, chemicals and various radioactive compounds. We are subject to federal, state and local laws and regulations governing the use, storage, handling and disposal of these materials and some waste products. Accidental contamination or injury from these materials could occur. In the event of an accident, we could be liable for any damages that result and any liabilities could exceed our resources. Compliance with environmental laws and regulations or a violation of such environmental laws and regulations could require us to incur substantial unexpected costs, which would materially and adversely affect our results of operations.

Information Regarding Forward-Looking Statements

This filing contains forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended, which are subject to the "safe harbor" created in Section 21E. All statements other than statements of historical facts contained in this filing are

forward-looking statements. These forward-looking statements can generally be identified by the use of words such as “may,” “will,”

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“intends,” “plans,” “believes,” “anticipates,” “expects,” “estimates,” “predicts,” “potential,” the negative of these words or similar expressions. Statements that describe our future plans, strategies, intentions, expectations, objectives, goals or prospects are also forward-looking statements. Discussions containing these forward-looking statements are principally contained in “Business,” “Risk Factors” and “Management’s Discussion and Analysis of Financial Condition and Results of Operations,” as well as any amendments we make to those sections in filings with the SEC. These forward-looking statements include, but are not limited to, statements about:

- the initiation, timing, progress and results of our preclinical testing, clinical trials, and other research and development efforts;
- the potential funding from our contracts with BARDA/HHS for the development and support of the NDA filing for peramivir and the potential funding from our contract with NIAID/HHS for the development of BCX4430;
- the FDA approval of peramivir;
- the potential for a stockpiling order or profit from any order of peramivir;
- the potential use of peramivir as a treatment for H1N1, H5N1, and H7N9 or other strains of influenza;
- the further preclinical or clinical development and commercialization of our product candidates, including our HAE program, peramivir, BCX4430, forodesine, ulodesine and other PNP inhibitor development programs;
- the implementation of our business model, strategic plans for our business, product candidates and technology;
- our ability to establish and maintain collaborations or out-license rights to our drug candidates;
- plans, programs, progress and potential success of our collaborations, including Mundipharma for forodesine and Shionogi and Green Cross for peramivir in their territories;
- Royalty Sub’s ability to service its payment obligations in respect of the PhARMA Notes, and our ability to benefit from our equity interest in Royalty Sub;
- the foreign currency hedge agreement entered into by us in connection with the issuance by Royalty Sub of the PhARMA Notes;
- the scope of protection we are able to establish and maintain for intellectual property rights covering our product candidates and technology;
- our ability to operate our business without infringing the intellectual property rights of others;
- estimates of our expenses, revenues, capital requirements and our needs for additional financing;
- the timing or likelihood of regulatory filings and approvals;
- our ability to raise additional capital to fund our operations;
- our financial performance; and
- competitive companies, technologies and our industry.

These statements relate to future events or to our future financial performance and involve known and unknown risks, uncertainties and other important factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by these forward-looking statements. Factors that may cause actual results to differ materially from current expectations include, among other things, those listed under “Risk Factors.” Any forward-looking statement reflects our current views with respect to future events and is subject to these and other risks, uncertainties and assumptions relating to our operations, results of operations, industry and future growth. Except as required by law, we assume no obligation to update or revise these forward-looking statements for any reason, even if new information becomes available in the future.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

We lease offices in both Durham, North Carolina and Birmingham, Alabama. Our headquarters, including our clinical and regulatory operations, are based in Durham, while our principal research facilities are located in Birmingham. We lease approximately 17,250 square feet in Durham through December 31, 2014 and approximately 50,150 square feet in Birmingham through June 30, 2015. Of the 50,150 square feet of space we lease in Birmingham, we have subleased approximately 16,050 square feet to another party. We believe that our facilities are adequate for our current operations.

ITEM 3. LEGAL PROCEEDINGS

None.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

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PART II

ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

Market Information

Our common stock trades on the NASDAQ Global Select Market under the symbol BCRX. The following table sets forth the low and high sales prices of our common stock as reported by the NASDAQ Global Select Market for each quarter in 2013 and 2012:

	2013		2012	
	Low	High	Low	High
First quarter	\$1.12	\$2.04	\$2.37	\$5.95
Second quarter	\$1.26	\$2.21	\$2.90	\$5.00
Third quarter	\$1.51	\$7.59	\$3.47	\$4.74
Fourth quarter	\$4.55	\$7.84	\$1.08	\$4.95

The last sale price of the common stock on January 31, 2014 as reported by the NASDAQ Global Select Market was \$10.20 per share.

Holders

As of January 31, 2014, there were approximately 214 holders of record of our common stock

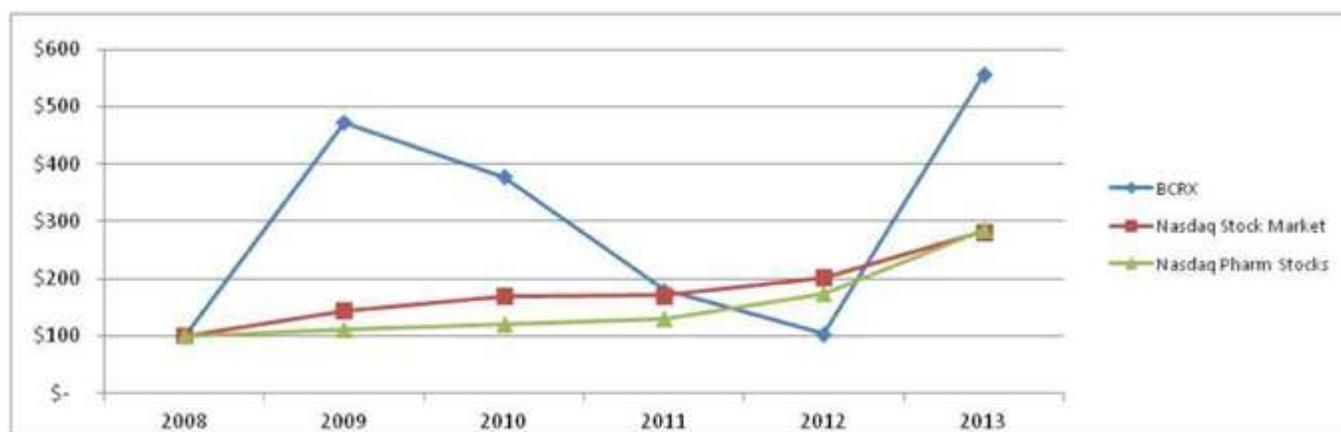
Dividends

We have never paid cash dividends and do not anticipate paying cash dividends in the foreseeable future.

Stock Performance Graph

This performance graph is not "soliciting material," is not deemed filed with the SEC and is not to be incorporated by reference in any filing by us under the Securities Act or the Exchange Act, whether made before or after the date hereof and irrespective of any general incorporation language in any such filing. The stock price performance shown on the graph is not necessarily indicative of future price performance.

PERFORMANCE GRAPH FOR BIOCRYST Indexed Comparison Since 2008



	Beginning Investment 12/31/08	Investment at 12/31/09	Investment at 12/31/10	Investment at 12/31/11	Investment at 12/31/12	Investment at 12/31/13
BioCryst Pharmaceuticals, Inc.	\$ 100.00	\$ 471.53	\$ 377.37	\$ 180.29	\$ 103.65	\$ 554.74
The NASDAQ Stock Market	100.00	143.74	170.17	171.08	202.40	281.91
NASDAQ Pharmaceutical Stocks	100.00	112.36	121.80	130.38	173.46	285.96

The above graph measures the change in a \$100 investment in our common stock based on its closing price of \$1.37 on December 31, 2008 and its year-end closing price thereafter. Our relative performance is then compared with the CRSP Total Return Indexes for the NASDAQ Stock Market (U.S.) and NASDAQ Pharmaceutical Stocks.

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Recent Sales of Unregistered Securities: None.

Issuer Purchases of Equity Securities

There were no repurchases of our common stock or shares surrendered to satisfy tax obligations during the fourth quarter of 2013.

ITEM 6. SELECTED FINANCIAL DATA

The selected Statement of Operations Data and Balance Sheet data with respect to the years ended December 31, 2013, 2012, 2011, 2010, and 2009 set forth below are derived from our consolidated financial statements. The selected financial data set forth below should be read in conjunction with “Management’s Discussion and Analysis of Financial Condition and Results of Operations contained in Item 7 below and our consolidated financial statements and the notes thereto appended to this annual report.

	Years Ended December 31,				
	2013	2012	2011	2010	2009
	(In thousands, except per share amounts)				
Statement of Operations Data:					
Total revenues	\$ 17,331	\$ 26,293	\$ 19,643	\$ 62,381	\$ 74,590
Cost of product sold	—	—	—	86	4,544
Research and development expenses	42,730	51,464	57,249	83,900	73,661
General and administrative expenses	5,220	6,826	11,981	11,718	10,122
Royalty expense	98	132	—	—	—
Restructuring costs	—	1,759	—	1,034	—
Loss from operations	(30,717)	(33,888)	(49,587)	(34,357)	(13,737)
Net loss	(30,108)	(39,081)	(56,948)	(33,853)	(13,451)
Basic and diluted net loss per share	\$ (0.55)	\$ (0.79)	\$ (1.26)	\$ (0.76)	\$ (0.35)
Weighted average shares outstanding	55,216	49,474	45,144	44,564	38,926

	As of December 31,				
	2013	2012	2011	2010	2009
	(In thousands)				
Balance Sheet Data:					
Cash, cash equivalents and investments	\$ 40,788	\$ 37,058	\$ 57,725	\$ 66,341	\$ 94,259
Receivables	2,115	4,562	5,831	30,227	33,722
Inventory	—	—	263	898	6,281
Total assets	48,866	57,439	82,208	109,447	142,190
Long-term deferred revenue	4,736	5,920	7,103	15,944	18,441
Non-recourse notes payable	30,000	30,000	30,000	—	—
Accumulated deficit	(422,709)	(392,601)	(353,520)	(296,572)	(262,719)
Total stockholders’ (deficit) equity	(1,126)	(454)	14,806	65,503	86,266

ITEM 7. MANAGEMENT’S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

This Annual Report on Form 10-K contains certain statements of a forward-looking nature relating to future events or the future financial performance of BioCryst. Such statements are only predictions and the actual events or results may differ materially from the results discussed in the forward-looking statements. Factors that could cause or contribute to such differences include those discussed below and elsewhere in this report, as well as those discussed in other filings made by BioCryst with the Securities and Exchange Commission.

The following Management’s Discussion and Analysis (“MD&A”) is intended to help the reader understand our results of operations and financial condition. MD&A is provided as a supplement to, and should be read in conjunction with, our audited financial statements and the accompanying notes to the financial statements and other disclosures included in this Annual Report on Form 10-K (including the disclosures under “Item 1A. Risk Factors”).

Cautionary Statement

The discussion herein contains forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended, which are subject to the “safe harbor” created in Section 21E. Forward looking statements regarding our financial condition and our results of operations that are based upon our consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted within the United States (“U.S. GAAP”), as well as projections for the future. The preparation of these financial statements requires our management to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses, and related disclosure of contingent assets and liabilities. We evaluate our estimates on an ongoing basis. Our estimates are based on historical experience and on various other assumptions that are believed to be reasonable under the circumstances. The results of our estimates form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources.

We operate in a highly competitive environment that involves a number of risks, some of which are beyond our control. We are subject to risks common to biotechnology and biopharmaceutical companies, including risks inherent in our drug discovery, drug development and commercialization efforts, clinical trials, uncertainty of regulatory actions and marketing approvals, reliance on collaborative partners,

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enforcement of patent and proprietary rights, the need for future capital, competition associated with products, potential competition associated with our product candidates and retention of key employees. In order for any of our product candidates to be commercialized, it will be necessary for us, or our collaborative partners, to conduct clinical trials, demonstrate efficacy and safety of the product candidate to the satisfaction of regulatory authorities, obtain marketing approval, enter into manufacturing, distribution and marketing arrangements, and obtain market acceptance and adequate reimbursement from government and private insurers. We cannot provide assurance that we will generate significant revenues or achieve and sustain profitability in the future. In addition, we can provide no assurance that we will have sufficient funding to meet our future capital requirements. Statements contained in Management's Discussion and Analysis of Financial Condition and Results of Operations and elsewhere in this report which are not historical facts are, or may constitute, forward-looking statements. Forward-looking statements involve known and unknown risks that could cause our actual results to differ materially from expected results. The most significant known risks are discussed in the section entitled "Risk Factors." Although we believe the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance or achievements. We caution you not to place undue reliance on any forward-looking statements.

Our revenues are difficult to predict and depend on numerous factors, including the prevalence and severity of influenza in regions for which peramivir has received regulatory approval, seasonality of influenza, ongoing discussions with government agencies regarding future peramivir and/or BCX4430 development, as well as entering into, or modifying, licensing agreements for our product candidates. Furthermore, revenues related to our collaborative development activities are dependent upon the progress toward and the achievement of developmental milestones by us or our collaborative partners.

Our operating expenses are also difficult to predict and depend on several factors, including research and development expenses (and whether these expenses are reimbursable under government contracts), drug manufacturing, and clinical research activities, the ongoing requirements of our development programs, and the availability of capital and direction from regulatory agencies, which are difficult to predict. Management may be able to control the timing and level of research and development and general and administrative expenses, but many of these expenditures will occur irrespective of our actions due to contractually committed activities and/or payments.

As a result of these factors, we believe that period to period comparisons are not necessarily meaningful and you should not rely on them as an indication of future performance. Due to all of the foregoing factors, it is possible that our operating results will be below the expectations of market analysts and investors. In such event, the prevailing market price of our common stock could be materially adversely affected.

Overview

We are a biotechnology company that designs, optimizes and develops novel drugs that block key enzymes involved in the pathogenesis of diseases. We focus on rare and infectious diseases in which unmet medical needs exist and that are aligned with our capabilities and expertise. We integrate the disciplines of biology, crystallography, medicinal chemistry and computer modeling to discover and develop small molecule pharmaceuticals through the process known as structure-guided drug design.

Critical Accounting Policies and Estimates

The accompanying discussion and analysis of our financial condition and results of operations are based upon our consolidated financial statements and the related disclosures, which have been prepared in accordance with U.S. GAAP. The preparation of these consolidated financial statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues, expenses and related disclosure of contingent assets and liabilities. We evaluate our estimates, judgments and the policies underlying these estimates on a periodic basis, as situations change, and regularly discuss financial events, policies, and issues with members of our audit committee and our independent registered public accounting firm. We routinely evaluate our estimates and policies regarding revenue recognition, administration, inventory and manufacturing, taxes, stock-based compensation, research and development, consulting and other expenses and any associated liabilities.

Recent Corporate Highlights

Peramivir

In December 2013, we submitted a NDA filing for i.v. peramivir to the FDA seeking an indication as the first i.v. neuraminidase inhibitor approved in the U.S. for the treatment of acute uncomplicated influenza in adults. BARDA/HHS released \$12.8 million of funding under the peramivir development contract to fund predominantly all activities associated with filing the NDA. The NDA submission includes results in over 2,700 subjects treated with peramivir in 27 clinical trials. On February 24, 2014, the FDA notified us that our NDA filing was accepted for review. The FDA is expected to take action on our application by December 23, 2014.

BCX4161

In November 2013, we enrolled the first patient in a proof of concept Phase 2a clinical trial in patients with HAE (entitled "OPuS-1"). This trial is evaluating 400 mg of BCX4161 administered three times daily for 28 days in a randomized, placebo-controlled, two-period cross-over design. This study is designed to provide proof of concept for oral kallikrein inhibition as a treatment strategy for HAE. Up to 25 HAE patients who have a high frequency of attacks (more than one per week) will be enrolled. We expect to report results from OPuS-1 no later than June 30, 2014.

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In March 2013, we initiated a BCX4161 Phase 1 clinical trial to support its development as a treatment for HAE. In July 2013, we announced that the Phase 1 clinical trial of orally-administered BCX4161 in healthy volunteers successfully met all of its objectives. The safety, tolerability, drug exposure and on-target kallikrein inhibition results of the Phase 1 trial strongly supported advancing the development program into a Phase 2a study in HAE patients.

2nd generation HAE compounds

In December 2013, we announced the selection of two optimized plasma kallikrein inhibitors to advance into preclinical development as potential once-daily, oral treatments for the prevention of HAE attacks. The second generation discovery program's goals of improving selectivity and bioavailability compared to BCX4161 were both met, with no identified off-target effects.

BCX4430

On December 26, 2013, NIAID/HHS exercised an option under its agreement with us to conduct the IND-enabling program and to submit an IND application. This option represented an additional \$2.5 million to us in order to advance the development of BCX4430 as a treatment for Marburg virus disease.

In September 2013, NIAID/HHS contracted with us for the development of BCX4430 as a treatment for Marburg virus disease. NIAID/HHS, part of the National Institutes of Health, made an initial award of \$5.0 million to us. The total funding under the contract could be up to \$22.0 million, if all contract options are exercised by NIAID/HHS. The goals of this contract are to file IND applications for i.v. and i.m. BCX4430 for the treatment of Marburg virus disease and to conduct an initial Phase 1 human clinical trial. The aggregate \$22.0 million contract and option funding supports the appropriate IND-enabling program and the initial clinical trial. Accordingly, with this option exercise, total obligated funding aggregates to \$7.5 million under the \$22.0 million contract.

On November 12, 2012, we announced proof-of-principle data demonstrating that BCX4430 is efficacious and well-tolerated in a preclinical disease model for evaluating efficacy against yellow fever virus infection at the 2nd Antivirals Congress in Cambridge. We are continuing our collaboration with the USAMRIID regarding filoviruses, while seeking additional U.S. Government funding (beyond the \$22.0 million NIAID/HHS contract) for the further development of BCX4430. The primary focus of the program is the treatment of hemorrhagic fever viruses, such as Marburg virus and Ebola virus.

Results of Operations

Year Ended December 31, 2013 Compared to 2012

Total 2013 revenues decreased to \$17.3 million as compared to 2012 revenues of \$26.3 million. The 2013 revenue consisted of \$2.6 million of royalty revenue from Shionogi and Green Cross associated with sales of peramivir in Japan and Korea, \$13.5 million of reimbursement of collaborative expenses from BARDA/HHS related to the development of i.v. peramivir and \$1.2 million associated with collaborative revenue amortization from other corporate partnerships. The decrease was primarily due to the recognition of \$7.8 million of previously deferred forodesine-related revenue during the first quarter of 2012. The remaining 2012 revenues consisted of \$3.3 million of royalty revenue from Shionogi sales of RAPIACTA, \$14.0 million of reimbursement of collaborative expenses from BARDA/HHS related to the development of i.v. peramivir and \$1.2 million associated with collaborative revenue amortization from other corporate partnerships. Based upon the completion of substantially all of the development activities under the BARDA/HHS contract as a result of the peramivir NDA filing and the comparatively smaller NIAID/HHS contract, we expect our 2014 revenue to decrease from 2013 levels.

Research and Development ("R&D") expenses decreased to \$42.7 million in 2013 from \$51.5 million in the prior year. The 2013 R&D expenses, compared with 2012, reflect decreased spending on our ulodesine and BCX5191 programs and reduced R&D infrastructure costs, partially offset by increased expenditures for our BCX4161 and BCX 4430 programs. In connection with the Amended and Restated License and Development Agreement with Mundipharma and the Knowledge Transfer that was completed in the first quarter of 2012, we recognized \$1.9 million of deferred expense in 2012. With this amendment, we did not incur many forodesine-related costs in 2013 and do not expect to incur any significant forodesine costs in the future. Furthermore, with the completion of Phase 2 testing of ulodesine in 2012, we do not expect to incur significant ulodesine expenses in the future, because we do not plan to initiate Phase 3 development of ulodesine without a partner. In 2013, we recognized approximately \$5.0 million of R&D costs related to a write-off of deferred collaboration costs associated with our PNP licensing agreement with AECOM/IRL. This write-off, and related R&D expenses, was allocated to the ulodesine program and represents the majority of 2013 ulodesine expense represented in the table below.

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The following table summarizes our R&D expenses for the periods indicated (amounts are in thousands).

	<u>2013</u>	<u>2012</u>	<u>2011</u>
R&D expenses by program:			
BCX4161	\$15,585	\$ 8,969	\$ 6,171
Peramivir	13,755	12,892	17,361
Ulodesine	6,000	10,208	20,185
BCX4430	3,466	1,300	474
BCX5191	503	9,046	1,939
Forodesine	12	2,170	759
Other research, preclinical and development costs	3,409	6,879	10,360
Total R&D expenses	<u>\$42,730</u>	<u>\$51,464</u>	<u>\$57,249</u>

Research and development expenses include all direct and indirect expenses and are allocated to specific programs at the point of development of a lead product candidate. Direct expenses are charged directly to the program to which they relate and indirect expenses are allocated based upon internal direct labor hours dedicated to each respective program. Direct expenses consist of compensation for R&D personnel and costs of outside parties to conduct laboratory studies, develop manufacturing processes, manufacture the product candidates, conduct and manage clinical trials, patent-related costs, as well as other costs related to our clinical and preclinical studies. Indirect R&D expenses consist of lab supplies and services, facility expenses, depreciation of development equipment and other overhead of our research and development efforts. R&D expenses vary according to the number of programs in clinical development and the stage of development of our clinical programs. Later stage clinical programs tend to cost more than earlier stage programs due to the longer length of time of the clinical trials and the higher number of patients enrolled in these clinical trials.

General and administrative (“G&A”) expenses decreased to \$5.2 million in 2013 compared to \$6.8 million in the prior year. The decrease of \$1.6 million is primarily due to the December 2012 restructuring that reduced our cost structure and operations.

Interest expense, related to the non-recourse notes issued in conjunction with the peramivir royalty monetization transaction in March 2011, increased slightly to \$4.8 million in 2013 as compared to \$4.7 million in 2012. In addition, a mark to market gain of \$5.3 million was recognized in 2013 related to the foreign currency hedge entered into in conjunction with the royalty monetization transaction, compared to a mark to market loss of \$0.7 million in the prior year, both resulting from changes in the U.S. dollar/Japanese yen exchange rate during the respective years. We entered into the foreign Currency Hedge Agreement to hedge changes in the value of the Japanese yen relative to the U.S. dollar. The currency hedge does not qualify for hedge accounting treatment and therefore mark to market adjustments are recognized in our Consolidated Statements of Comprehensive Loss. Although we cannot predict the future yen/dollar exchange rate, the applicable foreign currency rates have moved such that we have reclaimed hedge collateral in 2013; however, it is possible that additional collateral will be required in 2014. We are unable to predict future changes in the yen/dollar exchange rate or increases/decreases in our hedge loss associated with the Currency Hedge Agreement.

Restructuring

In December 2012, we announced that we had restructured our operations during the fourth quarter of 2012 to significantly reduce the size and operations of our Company in order to extend our existing cash runway. We eliminated approximately 50% of our workforce and decreased other costs, which significantly decreased our 2013 operating expenses and operating cash utilization, as compared to 2012 levels. In connection with the restructuring, we recorded restructuring charges of approximately \$1.8 million for the year ended December 31, 2012, which was reported in a separate line item in our Consolidated Statements of Comprehensive Loss. Significant components of the restructuring charge were termination benefits for employees impacted by the restructuring and losses associated with leased lab and office space that became underutilized. We do not expect to incur any additional restructuring changes as a result of our December 2012 restructuring and there was no restructuring accrual remaining at December 31, 2013.

Year Ended December 31, 2012 Compared to 2011

Total 2012 revenues increased to \$26.3 million as compared to 2011 revenues of \$19.6 million. Revenues in 2012 included the recognition of \$7.8 million of previously deferred revenue associated with the Amended and Restated License and Development Agreement with Mundipharma. The recognition of this revenue and the related expense did not impact our cash balance. The remaining 2012 revenue consisted of \$3.3 million of royalty revenue from Shionogi sales of RAPIACTA, \$14.0 million of reimbursement of collaborative expenses from BARDA/HHS related to the development of i.v. peramivir and \$1.2 million associated with collaborative revenue amortization from other corporate partnerships. Revenue increased in 2012 due to the recognition of all previously deferred revenue associated with the Mundipharma agreement as well as the recognition of RAPIACTA royalty revenue, for which no royalty was recognized in 2011. These two increases were partially offset by decreased BARDA/HHS revenue, as compared to 2011, associated with a lower rate of enrollment in the 301 trial compared to 2011. Revenues in 2011 consisted of \$17.1 million of reimbursement of collaborative expenses from BARDA/HHS related to the continued development of i.v. peramivir and \$2.5 million associated with collaborative revenue amortization from other corporate partnerships.

Research and development expenses decreased to \$51.5 million in 2012 as compared to \$57.2 million for 2011. The \$5.7 million decrease was driven by lower development costs associated with our peramivir development program and lower costs associated with our forodesine

clinical programs. The decrease in aforementioned costs was partially offset by higher development costs associated with the ulodesine program for the treatment of gout during 2011.

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General and administrative expenses decreased to \$6.8 million in 2012 compared to \$12.0 million in 2011. The decrease of \$5.2 million was primarily due to the continued realization of cost containment measures yielding a reduction of non-critical consulting and other administrative expenses, as well as avoidance of one-time expenses incurred in the 2011 relocation of our corporate headquarters. These reductions were offset somewhat by \$1.5 million of transaction costs associated with the uncompleted merger of Presidio Pharmaceuticals, Inc.

Interest expense related to the non-recourse notes issued in conjunction with the peramivir royalty monetization transaction in March 2011 increased to \$4.7 million in 2012, as compared to \$3.8 million in 2011, due to recognizing a full year of interest expense in 2012 compared to a partial year in 2011. In addition, a mark to market loss of \$0.7 million was recognized in 2012 related to our foreign currency hedge, compared to a mark to market loss of \$4.0 million in 2011, resulting from changes in the U.S. dollar/Japanese yen exchange rate.

Liquidity and Capital Resources

Cash expenditures have exceeded revenues since our inception and we expect our 2014 operating expenses to exceed our 2014 revenues. Our operations have principally been funded through public offerings and private placements of equity securities; cash from collaborative and other research and development agreements, including government contracts; and to a lesser extent, the Pharma Notes financing. On February 24, 2011, we announced that BARDA/HHS had awarded us a \$55.0 million contract modification intended to fund completion of the Phase 3 development of i.v. peramivir, bringing the total award from BARDA/HHS to \$234.8 million. On March 9, 2011, we completed a \$30.0 million non-recourse debt financing transaction designed to monetize certain future royalty and milestone payments under our license agreement with Shionogi. We received net proceeds from this transaction of approximately \$22.7 million, excluding hedge collateral posted subsequent to the closing of the transaction. In June 2011, we entered into an At Market Issuance Sales Agreement (the "ATM Agreement") with McNicoll, Lewis & Vlak ("MLV") pursuant to which we may issue and sell \$70.0 million in shares of our common stock at current market prices under a Form S-3 registration statement with MLV acting as the sales agent. As of December 31, 2013, we have sold an aggregate of 7.8 million shares of common stock at an average per share price of \$3.18 pursuant to the ATM Agreement for net proceeds of \$24.0 million. In addition, in August 2013, we raised \$18.5 million in net proceeds derived from the sale of 4.6 million shares of common stock at \$4.40 per share in a public offering. In addition to the above, we have received funding from other sources, including other collaborative and other research and development agreements; government grants; equipment lease financing; facility leases; research grants; and interest income on our investments.

As of December 31, 2013, we had net working capital of \$26.9 million, an increase of approximately \$2.1 million from \$24.8 million at December 31, 2012. The increase in working capital was principally due to \$18.5 million in net proceeds derived from our August 2013 public offering, \$5.2 million in net proceeds derived from the sale of approximately 2.9 million shares of common stock through the ATM Agreement, and \$5.2 million in cash collateral collected under our foreign currency hedge, which was largely offset by our normal operating expenses associated with the development of our product candidates. Our principal sources of liquidity at December 31, 2013 were approximately \$21.3 million in cash and cash equivalents; approximately \$19.5 million in investments considered available-for-sale; and approximately \$1.7 million in BARDA/HHS and NIAID/HHS receivables. In December 2012, we announced that we had restructured our operations to significantly reduce the size and operations of our Company in order to extend our existing cash runway. We anticipate our cash and investments will fund our operations into the first quarter of 2015.

We intend to contain costs and reduce cash flow requirements by closely managing our third party costs and headcount, leasing scientific equipment and facilities, contracting with other parties to conduct certain research and development projects and using consultants. We expect to incur additional expenses, potentially resulting in significant losses, as we continue to pursue our research and development activities, primarily related to our clinical trial activity. We may incur additional expenses related to the filing, prosecution, maintenance, defense and enforcement of patent and other intellectual property claims and additional regulatory costs as our clinical programs advance through later stages of development. The objective of our investment policy is to ensure the safety and preservation of invested funds, as well as maintaining liquidity sufficient to meet cash flow requirements. We place our excess cash with high credit quality financial institutions, commercial companies, and government agencies in order to limit the amount of our credit exposure. We have not realized any significant losses on our investments.

At December 31, 2013, we had long-term operating lease obligations, which provide for aggregate minimum payments of approximately \$1.0 million in 2014 and \$0.4 million in 2015. These obligations include the future rental of our operating facilities.

We plan to finance our needs principally from the following:

- lease or loan financing and future public or private equity financing;
- our existing capital resources and interest earned on that capital;
- payments under our contracts with BARDA/HHS and NIAID/HHS; and
- payments under collaborative and licensing agreements with corporate partners.

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As our programs continue to advance, our costs will increase. Our current and planned clinical trials, plus the related development, manufacturing, regulatory approval process requirements and additional personnel resources and testing required for the continuing development of our product candidates will consume significant capital resources and will increase our expenses. Our expenses, revenues and cash utilization rate could vary significantly depending on many factors, including our ability to raise additional capital, the development progress of our collaborative agreements for our product candidates, the amount and timing of funding we receive from BARDA/HHS and NIAID/HHS for peramivir and BCX4430, the amount of funding or assistance, if any, we receive from other governmental agencies or other new partnerships with third parties for the development of our product candidates, the progress and results of our current and proposed clinical trials for our most advanced product candidates, the progress made in the manufacturing of our lead product candidates and the progression of our other programs.

With the funds available at December 31, 2013, we believe these resources will be sufficient to fund our operations into the first quarter of 2015. Our future liquidity needs, and ability to address those needs, will largely be determined by the success of our product candidates and key development and regulatory events in the future. In order to continue our operations substantially beyond the first quarter of 2015, we will need to: (1) successfully secure, or increase U.S. Government funding of our programs; (2) out-license rights to certain of our product candidates, pursuant to which the we would receive cash milestones; (3) raise additional capital through equity or debt financings or from other sources; (4) obtain product candidate regulatory approvals, which would generate revenue and cash flow; (5) reduce spending on one or more research and development programs; and/or (6) restructure operations. Additionally, we retain the ability to offer for sale approximately \$25 million and \$125 million of securities, including common stock, preferred stock, debt securities, depositary shares and securities warrants from effective shelf registration statements, which we filed with the SEC on June 28, 2011 and November 6, 2013, respectively.

Our long-term capital requirements and the adequacy of our available funds will depend upon many factors, including:

- our ability to perform under our government contracts and receive reimbursement;
- the magnitude of work under our government contracts;
- the progress and magnitude of our research, drug discovery and development programs;
- changes in existing collaborative relationships or government contracts;
- our ability to establish additional collaborative relationships with academic institutions, biotechnology or pharmaceutical companies and governmental agencies or other third parties;
- the extent to which our partners, including governmental agencies, will share in the costs associated with the development of our programs or run the development programs themselves;
- our ability to negotiate favorable development and marketing strategic alliances for certain product candidates or a decision to build or expand internal development and commercial capabilities;
- successful commercialization of marketed products by either us or a partner;
- the scope and results of preclinical studies and clinical trials to identify and develop product candidates;
- our ability to engage sites and enroll subjects in our clinical trials;
- the scope of manufacturing of our product candidates to support our preclinical research and clinical trials;
- increases in personnel and related costs to support the development of our product candidates;
- the scope of manufacturing of our drug substance and drug products required for future NDA filings;
- competitive and technological advances;
- the time and costs involved in obtaining regulatory approvals; and
- the costs involved in all aspects of intellectual property strategy and protection including the costs involved in preparing, filing, prosecuting, maintaining, defending and enforcing patent claims.

We expect that we will be required to raise additional capital to complete the development and commercialization of our current product candidates and we may seek to raise capital in the near future. Additional funding, whether through additional sales of equity or debt securities, collaborative or other arrangements with corporate partners or from other sources, including governmental agencies in general and existing government contracts specifically, may not be available when needed or on terms acceptable to us. The issuance of preferred or common stock or convertible securities, with terms and prices significantly more favorable than those of the currently outstanding common stock, could have the effect of diluting or adversely affecting the holdings or rights of our existing stockholders. In addition, collaborative arrangements may require us to transfer certain material rights to such corporate partners. Insufficient funds may require us to delay, scale back or eliminate certain of our research and development programs. Our future working capital requirements, including the need for additional working capital, will be largely determined by the advancement of our portfolio of product candidates as well as rate of reimbursement by U.S. Government agencies of our peramivir and BCX 4430 expenses and any future decisions regarding the future of the peramivir and BCX4430 programs. More specifically, our working capital requirements will be dependent on the number, magnitude, scope and timing of our development programs; regulatory approval of our product candidates; obtaining funding from collaborative partners; the cost, timing and outcome of regulatory reviews, regulatory investigations, and changes in regulatory requirements; the costs of obtaining patent protection for our product candidates;

the timing and terms of business development activities; the rate of technological advances relevant to our operations; the efficiency of manufacturing processes developed on our behalf by third parties; and the level of required administrative support for our daily operations.

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Financial Outlook for 2014

Based upon our strategic and development operations, we expect 2014 operating cash usage to be in the range of \$35 to \$43 million, and expect our total 2014 operating expenses to be in the range of \$48 to \$59 million. Our operating expense range excludes stock-based compensation expense due to the difficulty in accurately projecting this expense, as it is significantly impacted by the volatility and price of the Company's stock, as well as vesting of the Company's outstanding performance-based stock options. Our operating cash forecast excludes any impact of our royalty monetization, hedge collateral posted or returned, sale of stock in the marketplace, and any other non-routine cash outflows or inflows. Our ability to remain within our operating expense and operating cash target ranges is subject to multiple factors, including unanticipated or additional general development and administrative costs and other factors described under the Risk Factors located elsewhere in this report.

Off-Balance Sheet Arrangements

As of December 31, 2013, we are not involved in any unconsolidated entities or off-balance sheet arrangements.

Contractual Obligations

In the table below, we set forth our enforceable and legally binding obligations and future commitments and obligations related to all contracts that we are likely to continue regardless of the fact that they are cancelable as of December 31, 2013. Some of the amounts we include in this table are based on management's estimates and assumptions about these obligations, including their duration, the possibility of renewal, anticipated actions by third parties, and other factors. Because these estimates and assumptions are necessarily subjective, the obligations we will actually pay in future periods may vary from those reflected in the table.

	Payments Due by Period (In thousands)				
		Less Than			More Than
Contractual Obligations	Total	1 Year	1-3 Years	3-5 Years	5 Years
Operating lease obligations	\$ 1,415	\$ 1,048	\$ 367	\$ —	\$ —
Purchase obligations(1)	10,196	10,196	—	—	—
Contingent license obligations	7,000	575	1,150	1,150	4,125
Non-recourse notes payable(2)	61,406	6,556	8,400	8,400	38,050
Total	\$80,017	\$ 18,375	\$ 9,917	\$ 9,550	\$ 42,175

- (1) Purchase obligations include commitments related to clinical development, manufacturing and research operations and other purchase commitments.
- (2) Assumes the PhaRMA Notes will be repaid at maturity and the related interest costs will accrue and be paid annually through maturity. This assumption is based on the unpredictable nature of the royalty payments from Shionogi, which are designated for both principal and interest payments on the PhaRMA Notes.

Under the Currency Hedge Agreement, we have the right to purchase dollars and sell yen at a rate of 100 yen per dollar for which we may be required to pay a premium in each year from 2014 through 2020, provided the Currency Hedge Agreement is still in effect. A payment of \$2.0 million will be required if, during the relevant year, the dollar is worth less than 100 yen. We have the right to terminate the Currency Hedge Agreement with respect to 2016 through 2020 by giving notice on May 18, 2014 and paying a \$2.0 million termination fee. Prior to termination, the maximum amount of hedge collateral we may be required to post is \$5.9 million. If we let the termination right lapse, the maximum amount of hedge collateral we may be required to post is \$13.7 million. As of December 31, 2013, we have no hedge collateral. Because the posting of additional collateral and payment of annual premiums is contingent on the value of the yen relative to the dollar and other factors, such payments have been excluded from the foregoing table.

In addition to the above, we have committed to make potential future "sublicense" payments to third-parties as part of in-licensing and development programs. Payments under these agreements generally become due and payable only upon achievement of certain developmental, regulatory and/or commercial milestones. Because the achievement of these milestones is neither probable nor reasonably estimable, such contingencies have not been recorded on our balance sheet.

Critical Accounting Policies

We have established various accounting policies that govern the application of accounting principles generally accepted in the U.S., which were utilized in the preparation of our consolidated financial statements. Certain accounting policies involve significant judgments and assumptions by management that have a material impact on the carrying value of certain assets and liabilities. Management considers such accounting policies to be critical accounting policies. The judgments and assumptions used by management are based on historical experience and other factors, which are believed to be reasonable under the circumstances. Because of the nature of the judgments and assumptions made by management, actual results could differ from these judgments and estimates, which could have a material impact on the carrying values of assets and liabilities and the results of operations.

While our significant accounting policies are more fully described in Note 1 to our consolidated financial statements included in this Annual Report on Form 10-K for the year ended December 31, 2013, we believe that the following accounting policies are the most critical to aid you in fully understanding and evaluating our reported financial results and affect the more significant judgments and estimates that we use in the preparation of our financial statements.

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Inventory

Our inventories consist of peramivir finished goods and supplies for the manufacture of peramivir, which are valued at the lower of cost or market using the first-in, first-out (i.e., FIFO) method. Cost includes materials, labor, overhead, shipping and handling costs. Our inventories are subject to expiration dating. We regularly evaluate the carrying value of our inventories and provide valuation reserves for any estimated obsolete, short-dated or unmarketable inventories. In addition, we may experience spoilage of our raw materials and supplies. Our determination that a valuation reserve might be required, in addition to the quantification of such reserve, requires us to utilize significant judgment. We have recorded a full valuation allowance for all inventory balances at December 31, 2013 and 2012.

Accrued Expenses

We enter into contractual agreements with third-party vendors who provide research and development, manufacturing, and other services in the ordinary course of business. Some of these contracts are subject to milestone-based invoicing and services are completed over an extended period of time. We record liabilities under these contractual commitments when an obligation has been incurred. This accrual process involves reviewing open contracts and purchase orders, communicating with our applicable personnel to identify services that have been performed and estimating the level of service performed and the associated cost when we have not yet been invoiced or otherwise notified of actual cost. The majority of our service providers invoice us monthly in arrears for services performed. We make estimates of our accrued expenses as of each balance sheet date based on the facts and circumstances known to us. We periodically confirm the accuracy of our estimates with the service providers and make adjustments if necessary. Examples of estimated accrued expenses include:

- fees paid to Clinical Research Organizations (“CROs”) in connection with preclinical and toxicology studies and clinical trials;
- fees paid to investigative sites in connection with clinical trials;
- fees paid to contract manufacturers in connection with the production of our raw materials, drug substance and drug products; and
- professional fees.

We base our expenses related to clinical trials on our estimates of the services received and efforts expended pursuant to contracts with multiple research institutions and clinical research organizations that conduct and manage clinical trials on our behalf. The financial terms of these agreements are subject to negotiation, vary from contract to contract and may result in uneven payment flows. Payments under some of these contracts depend on factors such as the successful enrollment of patients and the completion of clinical trial milestones. In accruing service fees, we estimate the time period over which services will be performed and the level of effort expended in each period. If the actual timing of the performance of services or the level of effort varies from our estimate, we will adjust the accrual accordingly. If we do not identify costs that we have begun to incur or if we underestimate or overestimate the level of these costs, our actual expenses could differ from our estimates.

Revenue Recognition

We recognize revenues from collaborative and other research and development arrangements and product sales. Revenue is realized or realizable and earned when all of the following criteria are met: (i) persuasive evidence of an arrangement exists; (ii) delivery has occurred or services have been rendered; (iii) the seller’s price to the buyer is fixed or determinable; and (iv) collectability is reasonably assured.

Collaborative and Other Research and Development Arrangements and Royalties

Revenue from license fees, royalty payments, event payments, and research and development fees are recognized as revenue when the earnings process is complete and we have no further continuing performance obligations or we have completed the performance obligations under the terms of the agreement. Fees received under licensing agreements that are related to future performance are deferred and recognized over an estimated period determined by management based on the terms of the agreement and the products licensed. In the event a license agreement contains multiple deliverables, we evaluate whether the deliverables are separate or combined units of accounting. Revisions to revenue or profit estimates as a result of changes in the estimated revenue period are recognized prospectively.

Under certain of our license agreements, we receive royalty payments based upon our licensees’ net sales of covered products. We recognize royalty revenues when we can reliably estimate such amounts and collectability is reasonably assured. Royalty revenue paid by Shionogi on their product sales is subject to returns.

Reimbursements received for direct out-of-pocket expenses related to research and development costs are recorded as revenue in the income statement rather than as a reduction in expenses. Event payments are recognized as revenue upon the achievement of specified events if (1) the event is substantive in nature and the achievement of the event was not reasonably assured at the inception of the agreement and (2) the fees are non-refundable and non-creditable. Any event payments received prior to satisfying these criteria are recorded as deferred revenue. Under our contracts with BARDA/HHS and NIAID/HHS, revenue is recognized as reimbursable direct and indirect costs are incurred.

Product Sales

Product sales are recognized net of estimated allowances, discounts, sales returns, chargebacks and rebates.

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Research and Development Expenses

Our research and development costs are charged to expense when incurred. Advance payments for goods or services that will be used or rendered for future research and development activities are deferred and capitalized. Such amounts are recognized as expense when the related goods are delivered or the related services are performed. Research and development expenses include, among other items, personnel costs, including salaries and benefits, manufacturing costs, clinical, regulatory, and toxicology services performed by CROs, materials and supplies, and overhead allocations consisting of various administrative and facilities related costs. Most of our manufacturing and clinical and preclinical studies are performed by third-party CROs. Costs for studies performed by CROs are accrued by us over the service periods specified in the contracts and estimates are adjusted, if required, based upon our on-going review of the level of services actually performed.

Additionally, we have license agreements with third parties, such as AECOM, IRL, and UAB, which require fees related to sublicense agreements or maintenance fees. We expense sublicense payments as incurred unless they are related to revenues that have been deferred, in which case the expenses are deferred and recognized over the related revenue recognition period. We expense maintenance payments as incurred.

At December 31, 2013, we had deferred collaboration expenses of approximately \$0.3 million. These deferred expenses were sub-license payments, paid to our academic partners upon receipt of consideration from various commercial partners, and other consideration to our academic partners for modification to existing license agreements. These deferred expenses would not have been incurred without receipt of such payments or modifications from our commercial partners and are being expensed in proportion to the related revenue being recognized. We believe that this accounting treatment appropriately matches expenses with the associated revenue.

We group our R&D expenses into two major categories: direct external expenses and indirect expenses. Direct expenses consist of compensation for R&D personnel and costs of outside parties to conduct laboratory studies, develop manufacturing processes and manufacture the product candidate, conduct and manage clinical trials, patent-related costs, as well as other costs related to our clinical and preclinical studies. These costs are accumulated and tracked by program. Indirect expenses consist of lab supplies and services, facility expenses, depreciation of development equipment and other overhead of our research and development efforts. These costs apply to work on our clinical and preclinical candidates as well as our discovery research efforts.

Stock-Based Compensation

All share-based payments, including grants of stock option awards and restricted stock awards, are recognized in our Consolidated Statements of Comprehensive Loss based on their fair values. Stock-based compensation cost is estimated at the grant date based on the fair value of the award and is recognized as expense on a straight-line basis over the requisite service period of the award. Determining the appropriate fair value model and the related assumptions for the model requires judgment, including estimating the life of an award, the stock price volatility, and the expected term. We utilize the Black-Scholes option-pricing model to value our awards and recognize compensation expense on a straight-line basis over the vesting periods. The estimation of share-based payment awards that will ultimately vest requires judgment, and to the extent actual results or updated estimates differ from our current estimates, such amounts will be recorded as a cumulative adjustment in the period estimates are revised. In addition, we have outstanding performance-based stock options for which no compensation expense is recognized until "performance" has occurred and the award vests. At the time of vesting, compensation expense will be recognized. Significant management judgment is also required in determining estimates of future stock price volatility and forfeitures to be used in the valuation of the options. Actual results, and future changes in estimates, may differ substantially from our current estimates.

Foreign Currency Hedge

In connection with our issuance of the PhaRMA Notes, we entered into a foreign Currency Hedge Agreement to hedge certain risks associated with changes in the value of the Japanese yen relative to the U.S. dollar. Under the Currency Hedge Agreement, we have the right to purchase dollars and sell yen at a rate of 100 yen per dollar for which we may be required to pay a premium in each year from 2014 through 2020, provided the Currency Hedge Agreement remains in effect. A payment of \$2.0 million will be required if, on May 18 of the relevant year, the U.S. dollar is worth 100 yen or less as determined in accordance with the Currency Hedge Agreement. In conjunction with establishing the Currency Hedge Agreement, we will be required to post collateral to the counterparty, which may cause us to experience additional quarterly volatility in our financial results. We will not be required at any time to post collateral exceeding the maximum premium payments remaining payable under the Currency Hedge Agreements. In establishing the hedge, we provided initial funds of approximately \$2.0 million to support our potential hedge obligations. Subject to certain obligations we have in connection with the PhaRMA Notes, we have the right to terminate the Currency Hedge Agreement with respect to the 2016 through 2020 period by giving notice to the counterparty prior to May 18, 2014 and payment of a \$2.0 million termination fee. Prior to this termination date, the maximum amount of hedge collateral we may be required to post is \$5.9 million. If we let the termination right lapse, the maximum amount of hedge collateral we may be required to post is \$13.7 million.

The Currency Hedge Agreement does not qualify for hedge accounting treatment and therefore mark to market adjustments will be recognized in our Consolidated Statements of Comprehensive Loss. Cumulative mark to market adjustments for the year ended December 31, 2013 resulted in a \$5.3 million gain. Mark to market adjustments are determined by quoted prices in markets that are not actively traded and for which significant inputs are observable directly or indirectly, representing the Level 2 in the fair value hierarchy as defined by generally accepted accounting principles. The Company is also required to post collateral in connection with the mark to market adjustments based on defined thresholds. As of December 31, 2013, no collateral was posted under the agreement.

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Tax

We account for uncertain tax positions in accordance with accounting principles generally accepted in the U.S. Significant management judgment is required in determining our provision for income taxes, deferred tax assets and liabilities and any valuation allowance recorded against net deferred tax assets. We have recorded a valuation allowance against all potential tax assets, due to uncertainties in our ability to utilize deferred tax assets, primarily consisting of certain net operating losses carried forward, before they expire. The valuation allowance is based on estimates of taxable income in each of the jurisdictions in which we operate and the period over which our deferred tax assets will be recoverable.

Impact of Inflation

We do not believe that our operating results have been materially impacted by inflation during the past three years. However, we cannot be assured that our operating results will not be adversely affected by inflation in the future. We will continually seek to mitigate the adverse effects of inflation on the services that we use through improved operating efficiencies and cost containment initiatives.

Recent Accounting Pronouncements

Note 11 to the Consolidated Financial Statements included in Item 8 of this Annual Report on Form 10-K discusses accounting pronouncements recently issued or proposed but not yet required to be adopted.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK.

Interest Rate Risk

We are subject to interest rate risk on our investment portfolio and borrowings under our PhaRMA Notes.

We invest in marketable securities in accordance with our investment policy. The primary objectives of our investment policy are to preserve capital, maintain proper liquidity to meet operating needs and maximize yields. Our investment policy specifies credit quality standards for our investments and limits the amount of credit exposure to any single issue, issuer or type of investment. We place our excess cash with high credit quality financial institutions, commercial companies, and government agencies in order to limit the amount of credit exposure. Some of the securities we invest in may have market risk. This means that a change in prevailing interest rates may cause the principal amount of the investment to fluctuate.

Our investment exposure to market risk for changes in interest rates relates to the increase or decrease in the amount of interest income we can earn on our portfolio, changes in the market value due to changes in interest rates and other market factors as well as the increase or decrease in any realized gains and losses. Our investment portfolio includes only marketable securities and instruments with active secondary or resale markets to help ensure portfolio liquidity. A hypothetical 100 basis point drop in interest rates along the entire interest rate yield curve would not significantly affect the fair value of our interest sensitive financial instruments. We generally have the ability to hold our fixed-income investments to maturity and therefore do not expect that our operating results, financial position or cash flows will be materially impacted due to a sudden change in interest rates. However, our future investment income may fall short of expectations due to changes in interest rates, or we may suffer losses in principal if forced to sell securities which have declined in market value due to changes in interest rates or other factors, such as changes in credit risk related to the securities' issuers. To minimize this risk, we schedule our investments to have maturities that coincide with our expected cash flow needs, thus avoiding the need to redeem an investment prior to its maturity date. Accordingly, we do not believe that we have material exposure to interest rate risk arising from our investments. Generally, our investments are not collateralized. We have not realized any significant losses from our investments.

We do not use interest rate derivative instruments to manage exposure to interest rate changes. We ensure the safety and preservation of invested principal funds by limiting default risk, market risk and reinvestment risk. We reduce default risk by investing in investment grade securities.

Foreign Currency Risk

In connection with the issuance by Royalty Sub of the PhaRMA Notes, we entered into a Currency Hedge Agreement to hedge certain risks associated with changes in the value of the Japanese yen relative to the U.S. dollar. Under the Currency Hedge Agreement, we are required to post collateral based on our potential obligations under the Currency Hedge Agreement as determined by periodic mark to market adjustments. Provided the Currency Hedge Agreement remains in effect, we may be required to pay a premium in the amount of \$2.0 million in each year beginning in May 2014 and continuing through May 2020. Such payment will be required if, in May of the relevant year, the spot rate of exchange for Japanese yen-U.S. dollars (determined in accordance with the Currency Hedge Agreement) is such that the U.S. dollar is worth 100 yen or less.

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ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

BIOCRYST PHARMACEUTICALS, INC.
CONSOLIDATED BALANCE SHEETS
(In thousands, except per share amounts)

	December 31,	
	2013	2012
ASSETS		
Cash and cash equivalents	\$ 21,164	\$ 20,891
Restricted cash	151	308
Investments	16,891	14,708
Receivables	2,115	4,562
Prepaid expenses and other current assets	1,725	1,097
Deferred collaboration expense	75	412
Total current assets	42,121	41,978
Investments	2,582	1,151
Furniture and equipment, net	306	583
Deferred collaboration expense	237	5,033
Other assets	3,620	8,694
Total assets	<u>\$ 48,866</u>	<u>\$ 57,439</u>
LIABILITIES AND STOCKHOLDERS' EQUITY		
Accounts payable	\$ 4,174	\$ 3,974
Accrued expenses	5,742	9,860
Interest payable	3,867	1,998
Deferred collaboration revenue	1,473	1,392
Total current liabilities	15,256	17,224
Deferred collaboration revenue	4,736	5,920
Foreign currency derivative	—	4,749
Non-recourse notes payable	30,000	30,000
Stockholders' equity:		
Preferred stock, \$0.001 par value; shares authorized — 5,000; no shares outstanding	—	—
Common stock, \$0.01 par value; shares authorized — 95,000; shares issued and outstanding — 59,092 in 2013 and 50,893 in 2012	591	509
Additional paid-in capital	420,988	391,611
Accumulated other comprehensive income	4	27
Accumulated deficit	(422,709)	(392,601)
Total stockholders' (deficit) equity	(1,126)	(454)
Total liabilities and stockholders' equity	<u>\$ 48,866</u>	<u>\$ 57,439</u>

See accompanying notes to consolidated financial statements.

BIOCRYST PHARMACEUTICALS, INC.
CONSOLIDATED STATEMENTS OF COMPREHENSIVE LOSS
(In thousands, except per share amounts)

	Year Ended December 31,		
	2013	2012	2011
Revenues			
Royalty revenue	\$ 2,562	\$ 3,317	\$ —
Collaborative and other research and development	14,769	22,976	19,643
Total revenues	17,331	26,293	19,643
Expenses			
Research and development	42,730	51,464	57,249
General and administrative	5,220	6,826	11,981
Royalty	98	132	—
Restructuring	—	1,759	—
Total operating expenses	48,048	60,181	69,230
Loss from operations	(30,717)	(33,888)	(49,587)
Interest and other income	93	222	413
Interest expense	(4,778)	(4,666)	(3,774)
Gain (loss) on foreign currency derivative	5,294	(749)	(4,000)
Net loss	(30,108)	(39,081)	(56,948)
Basic and diluted net loss per common share	\$ (0.55)	\$ (0.79)	\$ (1.26)
Weighted average shares outstanding	55,216	49,474	45,144
Unrealized loss on available for sale investments	\$ (23)	\$ (13)	\$ (65)
Comprehensive loss	<u><u>\$ (30,131)</u></u>	<u><u>\$ (39,094)</u></u>	<u><u>\$ (57,013)</u></u>

See accompanying notes to consolidated financial statements.

BIOCRYST PHARMACEUTICALS, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS
(In thousands, except per share amounts)

	Year Ended December 31,		
	2013	2012	2011
Operating activities:			
Net loss	\$(30,108)	\$(39,081)	\$(56,948)
Adjustments to reconcile net loss to net cash used in operating activities:			
Depreciation, amortization, and impairment	304	628	886
Gain on disposal of furniture and equipment	(47)	—	—
Stock-based compensation expense	4,368	4,167	4,772
Amortization of debt issuance costs	439	439	356
Change in fair value of foreign currency derivative	(5,294)	749	4,000
Changes in operating assets and liabilities:			
Receivables from collaborations	2,447	1,269	24,396
Inventory	—	263	635
Prepaid expenses and other assets	(620)	(623)	626
Deferred collaboration expense	5,133	2,301	1,309
Accounts payable and accrued expenses	(2,049)	2,068	(10,731)
Deferred collaboration revenue	(1,103)	(9,577)	(1,552)
Net cash used in operating activities:	(26,530)	(37,397)	(32,251)
Investing activities:			
Acquisition of furniture and equipment	(30)	(113)	(55)
Proceeds from sale furniture and equipment	50	—	—
Change in restricted cash	157	317	—
Purchases of investments	(23,974)	(16,153)	(45,500)
Sales and maturities of investments	20,330	40,833	56,873
Net cash (used in) provided by investing activities:	(3,467)	24,884	11,318
Financing activities:			
Sale of common stock, net	23,633	17,805	1,027
Exercise of stock options	1,333	534	278
Employee stock purchase plan sales	124	321	300
Purchases of treasury stock	—	—	(61)
Issuance of non-recourse notes payable, net	—	—	25,691
Receipt (payment) of foreign currency derivative collateral	5,180	(1,700)	(3,480)
Net cash provided by financing activities:	30,270	16,960	23,755
Increase in cash and cash equivalents	273	4,447	2,822
Cash and cash equivalents at beginning of year	20,891	16,444	13,622
Cash and cash equivalents at end of year	<u>\$ 21,164</u>	<u>\$ 20,891</u>	<u>\$ 16,444</u>

See accompanying notes to consolidated financial statements.

BIOCRYST PHARMACEUTICALS, INC.
CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY
(In thousands, except per share amounts)

	Common Stock	Additional Paid-In Capital	Accumulated Other Comprehensive (Loss) Income	Accumulated Deficit	Total Stockholders' Equity (Deficit)
Balance at December 31, 2010	\$ 450	\$361,520	\$ 105	\$ (296,572)	\$ 65,503
Net loss	—	—	—	(56,948)	(56,948)
Other comprehensive loss	—	—	(65)	—	(65)
Exercise of stock options, 184 shares, net	2	276	—	—	278
Employee stock purchase plan sales, 94 shares	1	299	—	—	300
Issuance of common stock, 437 shares, net	4	1,023	—	—	1,027
Purchases of treasury stock, 12 shares	—	(61)	—	—	(61)
Stock-based compensation expense	—	4,772	—	—	4,772
Balance at December 31, 2011	<u>457</u>	<u>367,829</u>	<u>40</u>	<u>(353,520)</u>	<u>14,806</u>
Net loss	—	—	—	(39,081)	(39,081)
Other comprehensive loss	—	—	(13)	—	(13)
Exercise of stock options, 348 shares, net	3	536	—	—	539
Employee stock purchase plan sales, 110 shares, net	1	320	—	—	321
Issuance of common stock, 4,774 shares, net	48	18,759	—	—	18,807
Stock-based compensation expense	—	4,167	—	—	4,167
Balance at December 31, 2012	<u>509</u>	<u>391,611</u>	<u>27</u>	<u>(392,601)</u>	<u>(454)</u>
Net loss	—	—	—	(30,108)	(30,108)
Other comprehensive loss	—	—	(23)	—	(23)
Exercise of stock options, 563 shares, net	6	1,327	—	—	1,333
Employee stock purchase plan sales, 89 shares, net	1	123	—	—	124
Issuance of common stock, 7,547 shares, net	75	23,559	—	—	23,634
Stock-based compensation expense	—	4,368	—	—	4,368
Balance at December 31, 2013	<u>\$ 591</u>	<u>\$420,988</u>	<u>\$ 4</u>	<u>\$ (422,709)</u>	<u>\$ (1,126)</u>

See accompanying notes to consolidated financial statements.

BIOCRYST PHARMACEUTICALS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
(In thousands, except per share amounts)

Note 1 — Significant Accounting Policies

The Company

BioCryst Pharmaceuticals, Inc. (the “Company”) is a biotechnology company that designs, optimizes and develops novel drugs that block key enzymes involved in the pathogenesis of diseases. The Company focuses on rare and infectious diseases in which unmet medical needs exist and that are aligned with its capabilities and expertise. The Company was incorporated in Delaware in 1986 and its headquarters is located in Durham, North Carolina. The Company integrates the disciplines of biology, crystallography, medicinal chemistry and computer modeling to discover and develop small molecule pharmaceuticals through the process known as structure-guided drug design. BioCryst has incurred losses and negative cash flows from operations since inception.

In the fourth quarter of 2012, the Company implemented a restructuring plan to significantly reduce its cost structure. Based on its current operating plans, the Company expects it has sufficient liquidity, with its existing cash and investments of \$40,788, to continue its planned operations into the first quarter of 2015. The Company’s liquidity needs, and ability to address those needs, will largely be determined by the success of its product candidates and key development and regulatory events in the future. In order to continue its operations substantially beyond the first quarter of 2015 it will need to: (1) successfully secure or increase U.S. Government funding of its programs; (2) out-license rights to certain of its product candidates, pursuant to which the Company would receive cash milestones; (3) raise additional capital through equity or debt financings or from other sources; (4) obtain product candidate regulatory approvals, which would generate revenue and cash flow; (5) reduce spending on one or more research and development programs; and/or (6) restructure operations. The Company will continue to incur operating losses and negative cash flows until revenues reach a level sufficient to support ongoing operations.

Basis of Presentation

Beginning in March 2011, the consolidated financial statements include the accounts of the Company and its wholly-owned subsidiary, JPR Royalty Sub LLC (“Royalty Sub”). Royalty Sub was formed in connection with a \$30,000 financing transaction the Company completed on March 9, 2011. See Note 3, Royalty Monetization, for a further description of this transaction. All intercompany transactions and balances have been eliminated.

The Company’s consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States. Such consolidated financial statements reflect all adjustments that are, in management’s opinion, necessary to present fairly, in all material respects, the Company’s consolidated financial position, results of operations, and cash flows. There were no adjustments other than normal recurring adjustments.

Cash and Cash Equivalents

The Company generally considers cash equivalents to be all cash held in commercial checking accounts, money market accounts or investments in debt instruments with maturities of three months or less at the time of purchase. The carrying value of cash and cash equivalents approximates fair value due to the short-term nature of these items.

Restricted Cash

Restricted cash as of December 31, 2013 includes \$150 (\$300 as of December 31, 2012) that the Company is required to maintain in an interest bearing money market account to serve as collateral for a corporate credit card program. The remaining \$1 and \$8 in restricted cash for December 31, 2013 and December 31, 2012 respectively relate to royalty receipts paid by Shionogi & Co. Ltd. (“Shionogi”) designated for interest on the PhaRMA Notes (see Note 3).

Investments

The Company invests in high credit quality investments in accordance with its investment policy, which is designed to minimize the possibility of loss. The objective of the Company’s investment policy is to ensure the safety and preservation of invested funds, as well as maintaining liquidity sufficient to meet cash flow requirements. The Company places its excess cash with high credit quality financial institutions, commercial companies, and government agencies in order to limit the amount of its credit exposure. In accordance with its policy, the Company is able to invest in marketable debt securities that may consist of U.S. Government and government agency securities, money market and mutual fund investments, municipal and corporate notes and bonds, commercial paper and asset or mortgage-backed securities, among others. The Company’s investment policy requires it to purchase high-quality marketable securities with a maximum individual maturity of three years and requires an average portfolio maturity of no more than 18 months. Some of the securities the Company invests in may have market risk. This means that a change in prevailing interest rates may cause the principal amount of the investment to fluctuate. To minimize this risk, the Company schedules its investments with maturities that coincide with expected cash flow needs, thus avoiding the need to redeem an investment prior to its maturity date. Accordingly, the Company does not believe it has a material exposure to interest rate risk arising from its

investments. Generally, the Company's investments are not collateralized. The Company has not realized any significant losses from its investments.

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The Company classifies all of its investments as available-for-sale. Unrealized gains and losses on investments are recognized in comprehensive loss, unless an unrealized loss is considered to be other than temporary, in which case the unrealized loss is charged to operations. The Company periodically reviews its investments for other than temporary declines in fair value below cost basis and whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. The Company believes the individual unrealized losses represent temporary declines primarily resulting from interest rate changes. Realized gains and losses are reflected in interest and other income in the Consolidated Statements of Comprehensive Loss and are determined using the specific identification method with transactions recorded on a settlement date basis. Investments with original maturities at date of purchase beyond three months and which mature at or less than 12 months from the balance sheet date are classified as current. Investments with a maturity beyond 12 months from the balance sheet date are classified as long-term. At December 31, 2013, the Company believes that the costs of its investments are recoverable in all material respects.

The following tables summarize the fair value of the Company's investments by type. The estimated fair value of the Company's fixed income investments are classified as Level 2 in the fair value hierarchy as defined in U.S. GAAP with the exception of U.S. Treasury securities, which are classified as Level 1. These valuations are based on observable direct and indirect inputs, primarily quoted prices of similar, but not identical, instruments in active markets or quoted prices for identical or similar instruments in markets that are not active. These fair values are obtained from independent pricing services which utilize Level 2 inputs.

	December 31, 2013				
	Amortized Cost	Accrued Interest	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value
Obligations of U.S. Government and its agencies	\$ 4,899	\$ 1	\$ 1	\$ —	\$ 4,901
Corporate debt securities	8,528	47	2	1	8,576
Commercial paper	5,994	—	2	—	5,996
Total investments	<u>\$ 19,421</u>	<u>\$ 48</u>	<u>\$ 5</u>	<u>\$ 1</u>	<u>\$ 19,473</u>

	December 31, 2012				
	Amortized Cost	Accrued Interest	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value
U.S. Treasury securities	\$ 999	\$ 2	\$ 2	\$ —	\$ 1,003
Obligations of U.S. Government and its agencies	3,505	6	2	—	3,513
Corporate debt securities	4,035	22	6	—	4,063
Commercial paper	1,695	—	1	—	1,696
Municipal obligations	5,541	27	16	—	5,584
Total investments	<u>\$ 15,775</u>	<u>\$ 57</u>	<u>\$ 27</u>	<u>\$ —</u>	<u>\$ 15,859</u>

The following table summarizes the scheduled maturity for the Company's investments at December 31, 2013 and 2012.

	2013	2012
Maturing in one year or less	\$16,891	\$14,708
Maturing after one year through two years	2,582	1,151
Maturing after two years	—	—
Total investments	<u>\$19,473</u>	<u>\$15,859</u>

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Receivables

Receivables are recorded for amounts due to the Company related to reimbursable research and development costs from the U.S. Department of Health and Human Services or royalty receivables from Shionogi & Co. Ltd. These receivables are evaluated to determine if any reserve or allowance should be established at each reporting date. At December 31, 2013 and 2012 the Company had the following receivables.

	December 31, 2013		
	Billed	Unbilled	Total
U.S. Department of Health and Human Services	\$ 90	\$ 1,573	\$1,663
Shionogi & Co. Ltd.	452	—	452
Total receivables	<u>\$542</u>	<u>\$ 1,573</u>	<u>\$2,115</u>

	December 31, 2012		
	Billed	Unbilled	Total
U.S. Department of Health and Human Services	\$150	\$ 3,888	\$4,038
Shionogi & Co. Ltd.	524	—	524
Total receivables	<u>\$674</u>	<u>\$ 3,888</u>	<u>\$4,562</u>

Monthly invoices are submitted to the U.S. Department of Health and Human Services related to reimbursable research and development costs. The Company is also entitled to monthly reimbursement of indirect costs based on rates stipulated in the underlying contract. The Company's calculations of its indirect cost rates are subject to audit by the federal government.

Inventory

At December 31, 2013 and 2012, the Company's inventory consisted of peramivir finished goods inventory and supplies for the manufacture of peramivir. Inventory is stated at the lower of cost, determined under the first-in, first-out ("FIFO") method, or market. The Company expenses costs related to the production of inventories as research and development expenses in the period incurred until such time it is believed that future economic benefit is expected to be recognized, which generally is reliant upon receipt of regulatory approval. Upon regulatory approval, the Company will capitalize subsequent costs related to the production of inventories.

During 2012, in connection with the termination of the peramivir Phase 3 301 clinical trial, the Company decided to fully reserve its supplies inventory for the manufacture of peramivir.

The Company's inventory consisted of the following:

	As of December 31,	
	2013	2012
Supplies	\$ 263	\$ 263
Finished goods	3,980	3,980
Reserve for finished goods and supplies	(4,243)	(4,243)
Net inventories	<u>\$ —</u>	<u>\$ —</u>

Furniture and Equipment

Furniture and equipment are recorded at cost. Depreciation is computed using the straight-line method with estimated useful lives of five and seven years. Laboratory equipment, office equipment, and software are depreciated over a life of five years. Furniture and fixtures are depreciated over a life of seven years. Leasehold improvements are amortized over their estimated useful lives or the remaining lease term, whichever is less.

In accordance with generally accepted accounting principles, the Company periodically reviews its furniture and equipment for impairment when events or changes in circumstances indicate that the carrying amount of such assets may not be recoverable. Determination of recoverability is based on an estimate of undiscounted future cash flows resulting from the use of the asset and its eventual disposition. In the event that such cash flows are not expected to be sufficient to recover the carrying amount of the assets, the assets are written down to their estimated fair values. Furniture and equipment to be disposed of are reported at the lower of carrying amount or fair value less cost to sell.

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Patents and Licenses

The Company seeks patent protection on all internally developed processes and products. All patent related costs are expensed to research development expenses when incurred as recoverability of such expenditures is uncertain.

Accrued Expenses

The Company generally enters into contractual agreements with third-party vendors who provide research and development, manufacturing, and other services in the ordinary course of business. Some of these contracts are subject to milestone-based invoicing and services are completed over an extended period of time. The Company records liabilities under these contractual commitments when it determines an obligation has been incurred, regardless of the timing of the invoice. This process involves reviewing open contracts and purchase orders, communicating with applicable Company personnel to identify services that have been performed on its behalf and estimating the level of service performed and the associated cost incurred for the service when the Company has not yet been invoiced or otherwise notified of actual cost. The majority of service providers invoice the Company monthly in arrears for services performed. The Company makes estimates of accrued expenses as of each balance sheet date in its financial statements based on the facts and circumstances. The Company periodically confirms the accuracy of its estimates with the service providers and makes adjustments if necessary. Examples of estimated accrued expenses include:

- fees paid to Clinical Research Organizations (“CROs”) in connection with preclinical and toxicology studies and clinical trials;
- fees paid to investigative sites in connection with clinical trials;
- fees paid to contract manufacturers in connection with the production of our raw materials, drug substance and drug products; and
- professional fees.

The Company bases its expenses related to clinical trials on its estimates of the services received and efforts expended pursuant to contracts with multiple research institutions and clinical research organizations that conduct and manage clinical trials on the Company’s behalf. The financial terms of these agreements are subject to negotiation, vary from contract to contract and may result in uneven payment flows. Payments under some of these contracts depend on factors such as the successful enrollment of patients and the completion of clinical trial milestones. In accruing service fees, the Company estimates the time period over which services will be performed and the level of effort expended in each period. If the actual timing of the performance of services or the level of effort varies from the estimate, the Company will adjust the accrual accordingly. Accrued expenses as of December 31, 2013 and 2012 included \$2,210 and \$6,573, respectively, of research and development costs.

Income Taxes

The liability method is used in the Company’s accounting for income taxes. Under this method, deferred tax assets and liabilities are determined based on differences between financial reporting and tax bases of assets and liabilities and are measured using the enacted tax rates and laws that are expected to be in effect when the differences are expected to reverse.

Accumulated Other Comprehensive (Loss) Income

Accumulated other comprehensive (loss) income is comprised of unrealized gains and losses on investments available-for-sale and is disclosed as a separate component of stockholders’ equity.

Revenue Recognition

The Company recognizes revenues from collaborative and other research and development arrangements and product sales. Revenue is realized or realizable and earned when all of the following criteria are met: (i) persuasive evidence of an arrangement exists; (ii) delivery has occurred or services have been rendered; (iii) the seller’s price to the buyer is fixed or determinable; and (iv) collectability is reasonably assured.

Collaborative and Other Research and Development Arrangements and Royalties

Revenue from license fees, royalty payments, event payments, and research and development fees are recognized as revenue when the earnings process is complete and the Company has no further continuing performance obligations or the Company has completed the performance obligations under the terms of the agreement. Fees received under licensing agreements that are related to future performance are deferred and recognized over an estimated period determined by management based on the terms of the agreement and the products licensed. In the event a license agreement contains multiple deliverables, the Company evaluates whether the deliverables are separate or combined units of accounting. Revisions to revenue or profit estimates as a result of changes in the estimated revenue period are recognized prospectively.

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BIOCRYST PHARMACEUTICALS, INC. NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (In thousands, except per share amounts)

Under certain of our license agreements, the Company receives royalty payments based upon our licensees' net sales of covered products. The Company recognizes royalty revenues when it can reliably estimate such amounts and collectability is reasonably assured.

Royalty revenue paid by Shionogi on their product sales is subject to returns. Prior to the third quarter of 2012, the Company did not have sufficient historical experience to reasonably estimate product returns and therefore could not reasonably record the underlying revenue. As of the end of the second quarter of 2012, the Company deferred recognition of all RAPIACTA[®] royalty revenue from Shionogi sales in 2011 and the first six months of 2012. During the third quarter of 2012, and after the completion of the 2011/2012 flu season in Japan, the Company obtained sufficient historical information to reasonably estimate product returns and recognized royalty revenue of \$2,848, net of an allowance for estimated returns. During the fourth quarter of 2012, the Company recognized royalty revenue of \$469, for a total of \$3,317 in 2012.

Reimbursements received for direct out-of-pocket expenses related to research and development costs are recorded as revenue in the Consolidated Statements of Comprehensive Loss rather than as a reduction in expenses. Event payments are recognized as revenue upon the achievement of specified events if (1) the event is substantive in nature and the achievement of the event was not reasonably assured at the inception of the agreement and (2) the fees are non-refundable and non-creditable. Any event payments received prior to satisfying these criteria are recorded as deferred revenue. Under the Company's contracts with BARDA/HHS and NIAID/HHS, revenue is recognized as reimbursable direct and indirect costs are incurred.

Product Sales

Sales are recognized when there is persuasive evidence that an arrangement exists, title has passed, the price was fixed and determinable, and collectability is reasonably assured. Product sales are recognized net of estimated allowances, discounts, sales returns, chargebacks and rebates. Product sales recognized during 2010 were not subject to a contractual right of return.

The Company recorded the following revenues for the years ended December 31:

	2013	2012	2011
Royalty revenue	\$ 2,562	\$ 3,317	\$ —
Collaborative and other research and development revenues:			
U.S. Department of Health and Human Services	13,585	14,026	17,099
Shionogi (Japan)	1,184	1,184	1,181
Mundipharma (United Kingdom)	—	7,766	1,277
Grants (United States)	—	—	86
Total collaborative and other research and development revenues	14,769	22,976	19,643
Total revenues	\$17,331	\$26,293	\$19,643

Research and Development Expenses

The Company's research and development costs are charged to expense when incurred. Research and development expenses include all direct and indirect development costs related to the development of the Company's portfolio of product candidates. Advance payments for goods or services that will be used or rendered for future research and development activities are deferred and capitalized. Such amounts are recognized as expense when the related goods are delivered or the related services are performed. Research and development expenses include, among other items, personnel costs, including salaries and benefits, manufacturing costs, clinical, regulatory, and toxicology services performed by CROs, materials and supplies, and overhead allocations consisting of various administrative and facilities related costs. Most of the Company's manufacturing and clinical and preclinical studies are performed by third-party CROs. Costs for studies performed by CROs are accrued by the Company over the service periods specified in the contracts and estimates are adjusted, if required, based upon the Company's on-going review of the level of services actually performed.

Additionally, the Company has license agreements with third parties, such as Albert Einstein College of Medicine of Yeshiva University ("AECOM"), Industrial Research, Ltd. ("IRL"), and the University of Alabama at Birmingham ("UAB"), which require fees related to sublicense agreements or maintenance fees. The Company expenses sublicense payments as incurred unless they are related to revenues that have been deferred, in which case the expenses are deferred and recognized over the related revenue recognition period. The Company expenses maintenance payments as incurred.

Deferred collaboration expenses represent sub-license payments, paid to the Company's academic partners upon receipt of consideration from various commercial partners, and other consideration paid to our academic partners for modification to existing license agreements. These deferred expenses would not have been incurred without receipt of such payments or modifications from the Company's commercial partners and are being expensed in proportion to the related revenue being recognized. The Company believes that this accounting treatment appropriately matches expenses with the associated revenue.

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Stock-Based Compensation

All share-based payments, including grants of stock option awards and restricted stock awards, are recognized in the Company's Consolidated Statements of Comprehensive Loss based on their fair values. The fair value of stock option awards is estimated using the Black-Scholes option pricing model. The fair value of restricted stock awards is based on the grant date closing price of the common stock. Stock-based compensation cost is recognized as expense on a straight-line basis over the requisite service period of the award.

Interest Expense and Deferred Financing Costs

Interest expense for the years ended December 31, 2013 and 2012 was \$4,778 and \$4,666, respectively, and relates to the issuance of the PhaRMA Notes. Costs directly associated with the issuance of the PhaRMA Notes have been capitalized and are included in other non-current assets on the Consolidated Balance Sheets. These costs are being amortized to interest expense over the term of the PhaRMA Notes using the effective interest rate method. Amortization of deferred financing costs included in interest expense for the years ended December 31, 2013 and 2012 was \$439, respectively.

Currency Hedge Agreement

In connection with the issuance by Royalty Sub of the PhaRMA Notes, the Company entered into a Currency Hedge Agreement to hedge certain risks associated with changes in the value of the Japanese yen relative to the U.S. dollar. The Currency Hedge Agreement does not qualify for hedge accounting treatment; therefore mark to market adjustments are recognized in the Company's Consolidated Statements of Comprehensive Loss. Cumulative mark to market adjustments for the years ended December 31, 2013 and 2012 resulted in a gain of \$5,294 and a loss of \$749, respectively. Mark to market adjustments are determined by a third party pricing model which uses quoted prices in markets that are not actively traded and for which significant inputs are observable directly or indirectly, representing Level 2 in the fair value hierarchy as defined by generally accepted accounting principles. The Company is also required to post collateral in connection with the mark to market adjustments based on defined thresholds. As of December 31, 2013, no hedge collateral was posted under the agreement. As of December 31, 2012, \$5,180 of hedge collateral was posted.

Restructuring Activities

During the fourth quarter of 2012, the Company announced a restructuring plan in response to setbacks in its development programs.

The following table sets forth activity in the restructuring liability for the years ended December 31, 2013, 2012 and 2011.

	Employee separation costs	Facilities related charges	Total
Balance at December 31, 2010	\$ 158	\$ —	\$ 158
Accruals	(158)	—	(158)
Balance at December 31, 2011	—	—	—
Accruals	1,662	97	1,759
Payments	(58)	—	(58)
Balance at December 31, 2012	1,604	97	1,701
Accruals	—	(97)	(97)
Payments	(1,604)	—	(1,604)
Balance at December 31, 2013	<u>\$ —</u>	<u>\$ —</u>	<u>\$ —</u>

Net Loss Per Share

Net loss per share is based upon the weighted average number of common shares outstanding during the period. Diluted loss per share is equivalent to basic net loss per share for all periods presented herein because common equivalent shares from unexercised stock options, outstanding warrants, and common shares expected to be issued under the Company's employee stock purchase plan were anti-dilutive. The calculation of diluted earnings per share for the years ended December 31, 2013, 2012, and 2011 does not include 2,109, 1,026 and 1,003 respectively, of potential common shares, as their impact would be anti-dilutive.

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States ("U.S. GAAP") requires the Company to make estimates and assumptions that affect the amounts reported in the financial statements. Actual results could differ

from those estimates.

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Concentration of Market Risk

The Company’s primary source of revenue that has an underlying cash flow stream is the reimbursement of peramivir and BCX4430 development expenses, which was earned under a cost-plus-fixed-fee contract with BARDA/HHS and NIAID/HHS, respectively. The Company relies on BARDA/HHS and NIAID/HHS to reimburse predominantly all of the development costs for its peramivir and BCX4430 programs. Accordingly, reimbursement of these expenses represents a significant portion of the Company’s collaborative and other research and development revenues. The completion or termination of these programs/collaborations could negatively impact the Company’s future Consolidated Statements of Comprehensive Loss and Cash Flows. In addition, the Company also recognizes royalty revenue from the net sales of RAPIACTA; however, the underlying cash flow from these royalty payments goes directly to pay the interest, and then the principal, on the Company’s non-recourse notes payable. Payment of the interest and the ultimate repayment of principal of these notes will be entirely funded by future royalty payments derived from net sales of RAPIACTA. The Company’s drug development activities are performed by a limited group of third party vendors. If any of these vendors were unable to perform their services, this could significantly impact the Company’s ability to complete its drug development activities.

Credit Risk

Cash equivalents and investments are financial instruments which potentially subject the Company to concentration of risk to the extent recorded on the Consolidated Balance Sheets. The Company deposits excess cash with major financial institutions in the United States. Balances may exceed the amount of insurance provided on such deposits. The Company believes it has established guidelines for investment of its excess cash relative to diversification and maturities that maintain safety and liquidity. To minimize the exposure due to adverse shifts in interest rates, the Company maintains a portfolio of investments with an average maturity of approximately 24 months or less. This majority of the Company’s receivables are due from the U.S. Government, for which there is no assumed credit risk.

Note 2 — Furniture and Equipment

Furniture and equipment consisted of the following at December 31:

	<u>2013</u>	<u>2012</u>
Furniture and fixtures	\$ 600	\$ 596
Office equipment	1,266	1,486
Software	1,448	1,421
Laboratory equipment	5,721	6,050
Leased equipment	63	63
Leasehold improvements	5,316	5,316
	<u>14,414</u>	<u>14,932</u>
Less accumulated depreciation and amortization	<u>(14,108)</u>	<u>(14,349)</u>
Furniture and equipment, net	<u>\$ 306</u>	<u>\$ 583</u>

Depreciation and amortization expense for the years ended December 31, 2013, 2012 and 2011 was \$304, \$628 and \$886, respectively.

Note 3— Royalty Monetization

Overview

On March 9, 2011, the Company completed a \$30,000 financing transaction to monetize certain future royalty and milestone payments under the Shionogi Agreement, pursuant to which Shionogi licensed from the Company the rights to market RAPIACTA in Japan and, if approved for commercial sale, Taiwan. The Company received net proceeds of \$22,691 from the transaction after transaction costs of \$4,309 and the establishment of a \$3,000 interest reserve account by Royalty Sub, available to help cover interest shortfalls in the future. All of the interest reserve account has been fully utilized through payment of the September 2012 interest payment. As of December 31, 2013, approximately \$2,356 of interest due at September 1, 2013 was in arrears.

As part of the transaction, the Company entered into a purchase and sale agreement dated as of March 9, 2011 with Royalty Sub, whereby the Company transferred to Royalty Sub, among other things, (i) its rights to receive certain royalty and milestone payments from Shionogi arising under the Shionogi Agreement, and (ii) the right to receive payments under a Japanese yen/US dollar foreign currency hedge arrangement (as further described below, the “Currency Hedge Agreement”) put into place by the Company in connection with the transaction. Royalty payments will be paid by Shionogi in Japanese yen and milestone payments will be paid in U.S. dollars. The Company’s collaboration with Shionogi was not impacted as a result of this transaction.

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BIOCRIST PHARMACEUTICALS, INC. NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (In thousands, except per share amounts)

Non-Recourse Notes Payable

On March 9, 2011, Royalty Sub completed a private placement to institutional investors of \$30,000 in aggregate principal amount of its PhaRMA Senior Secured 14.0% Notes due 2020 (the "PhaRMA Notes"). The PhaRMA Notes were issued by Royalty Sub under an Indenture, dated as of March 9, 2011 (the "Indenture"), by and between Royalty Sub and U.S. Bank National Association, as Trustee. Principal and interest on the PhaRMA Notes issued are payable from, and are secured by, the rights to royalty and milestone payments under the Shionogi Agreement transferred by the Company to Royalty Sub and payments, if any, made to Royalty Sub under the Currency Hedge Agreement. The PhaRMA Notes bear interest at 14% per annum, payable annually in arrears on September 1st of each year (the "Payment Date"). The Company remains entitled to receive any royalties and milestone payments related to sales of peramivir by Shionogi following repayment of the PhaRMA Notes.

Royalty Sub's obligations to pay principal and interest on the PhaRMA Notes are obligations solely of Royalty Sub and are without recourse to any other person, including the Company, except to the extent of the Company's pledge of its equity interests in Royalty Sub in support of the PhaRMA Notes. The Company may, but is not obligated to, make capital contributions to a capital account that may be used to redeem, or on up to one occasion pay any interest shortfall on, the PhaRMA Notes.

In September 2013, Royalty Sub paid \$1,844 of interest on the PhaRMA Notes from royalty payments received from RAPIACTA[®] sales from the preceding four calendar quarters. This payment resulted in an obligation shortfall of approximately \$2,356 associated with accrued interest due September 3, 2013. As stipulated under the PhaRMA Notes Indenture, if the amount available for payment on any Payment Date is insufficient to pay all of the interest due on a Payment Date, the shortfall in interest will accrue interest at the interest rate applicable to the PhaRMA Notes compounded annually. Accordingly, commencing in September 2013, the Company began accruing interest at 14% per annum on the interest shortfall of \$2,356. Under the terms of the Indenture, Royalty Sub's inability to pay the full amount of interest payable in September 2013 did not constitute an event of default under the PhaRMA Notes unless the shortfall, plus interest thereon, is not satisfied on the next succeeding Payment Date for the PhaRMA Notes, which is September 1, 2014.

The Indenture does not contain any financial covenants. The Indenture includes customary representations and warranties of Royalty Sub, affirmative and negative covenants of Royalty Sub, Events of Default and related remedies, and provisions regarding the duties of the Trustee, indemnification of the Trustee, and other matters typical for indentures used in structured financings of this type.

As of December 31, 2013, the aggregate fair value of the PhaRMA Notes approximates its carrying value of \$30,000. The estimated fair value of the PhaRMA Notes is classified as Level 2 in the fair value hierarchy as defined in U.S. GAAP.

Beginning on March 9, 2012, the PhaRMA Notes became redeemable by Royalty Sub. Accordingly, the PhaRMA Notes will be redeemable at the option of Royalty Sub at any time at a redemption price equal to the percentage of the outstanding principal balance of the PhaRMA Notes being redeemed specified below for the period in which the redemption occurs, plus accrued and unpaid interest through the redemption date on the PhaRMA Notes being redeemed.

<u>Payment Dates (Between Indicated Dates)</u>	<u>Redemption Percentage</u>
From and including March 9, 2013 to and including March 8, 2014	103.5%
From and including March 9, 2014 and thereafter	100.0%

Foreign Currency Hedge

In connection with the issuance by Royalty Sub of the PhaRMA Notes, the Company entered into a Currency Hedge Agreement to hedge certain risks associated with changes in the value of the Japanese yen relative to the U.S. dollar. Under the Currency Hedge Agreement, the Company has the right to purchase dollars and sell yen at a rate of 100 yen per dollar for which the Company may be required to pay a premium in each year from 2014 through 2020, provided the Currency Hedge Agreement remains in effect. A payment of \$1,950 will be required if, on May 18 of the relevant year, the U.S. dollar is worth 100 yen or less as determined in accordance with the Currency Hedge Agreement.

The Currency Hedge Agreement does not qualify for hedge accounting treatment; therefore mark to market adjustments are recognized in the Company's Consolidated Statement of Comprehensive Loss. Cumulative mark to market adjustments in 2013 and 2012 resulted in a gain of \$5,294 and a loss of \$749, respectively. The Company is also required to post collateral in connection with the mark to market adjustments based on defined thresholds. As of December 31, 2013 and 2012, \$0 and \$5,180 respectively, were posted under the Currency Hedge Agreement. The Company will not be required at any time to post collateral exceeding the maximum premium payments remaining payable under the Currency Hedge Agreement. Subject to certain obligations the Company has in connection with the PhaRMA Notes, the Company has the right to terminate the Currency Hedge Agreement with respect to the 2016 through 2020 period by giving notice to the counterparty prior to May 18, 2014 and payment of a \$1,950 termination fee. If the Company terminates the hedge agreement with respect to currency hedges for 2016 through 2020, the maximum obligation under the currency hedge is \$5,850, including the \$1,950 termination fee. If the Company lets the termination

right lapse, the maximum amount of hedge collateral the Company would be required to post is \$13,650.

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Note 4 — Lease Obligations and Other Contingencies

The Company has the following minimum payments under operating lease obligations that existed at December 31, 2013:

2014	\$1,048
2015	<u>367</u>
Total minimum payments	<u>\$1,415</u>

The obligations in the preceding table are primarily related to the Company's leases for buildings in Birmingham, Alabama and Durham, North Carolina. The lease for the building in Alabama expires June 30, 2015 and has an option to renew an additional five years at the current market rate on the date of termination. The lease for the building in Durham, North Carolina expires December 31, 2014. Rent expense for operating leases was \$526, \$629, and \$714 in 2013, 2012, and 2011, respectively.

Note 5 — Stockholders' Equity

In June 2011, the Company entered into an At Market Issuance Sales Agreement (the "ATM Agreement") with McNicoll, Lewis & Vlak ("MLV") pursuant to which the Company may issue and sell \$70,000 in shares of its common stock at current market prices under a Form S-3 registration statement with MLV acting as the sales agent. Subject to the terms and conditions of the ATM Agreement, MLV will use commercially reasonable efforts to sell the Company's common stock from time to time, based upon the Company's instruction, including any price, time or size limits or other customary parameters or conditions the Company may impose. The Company will pay MLV an aggregate commission rate of 2% of the gross proceeds of the sales price per share of any common stock sold under the ATM Agreement depending on the number of shares sold. On June 28, 2011, the Company filed a Registration Statement on Form S-3, which became effective on July 13, 2011, for the issuance and sale of up to \$70,000 of equity or other securities. During 2012, the Company sold an aggregate of 4,516 shares of common stock at an average per share price of \$4.08 pursuant to the ATM Agreement for net proceeds of \$17,805. During 2013, the Company sold an aggregate of 2,883 shares of common stock at an average per share price of \$1.85 pursuant to the Agreement for net proceeds of \$5,218.

In August 2013, the Company completed a public offering of 4,600 shares of its common stock at a price of \$4.40 per share, which included the underwriters' over-allotment allocation of an additional 600 shares. Net proceeds were approximately \$18,500 after deducting underwriting discounts and offering expenses.

On March 15, 2012, the Company issued 193 shares of restricted common stock in lieu of a cash payment to employees as payment for their annual incentive award earned in 2011. The number of shares issued was based on the total value of the annual incentive earned in 2011 of \$1,542, less \$535 in withholding taxes paid in cash on the employees' behalf, divided by the closing common stock price on March 15, 2012 of \$5.23 per share.

Note 6 — Stock-Based Compensation

Stock Incentive Plan

As of December 31, 2013, the Company had two stock-based employee compensation plans, the Stock Incentive Plan ("Incentive Plan") and the Employee Stock Purchase Plan ("ESPP"), both which were amended and restated in March 2012 and approved by the Company's stockholders in May 2012. During 2007, the Company made an inducement grant outside of the Incentive Plan and ESPP to recruit a new employee to a key position within the Company. Stock-based compensation expense of \$4,368 (\$4,253 of expense related to the Incentive Plan, \$115 of expense related to the ESPP) was recognized during 2013, while \$4,167 (\$4,010 of expense related to the Incentive Plan, \$157 of expense related to the ESPP) was recognized during 2012, and \$4,772 (\$4,589 of expense related to the Incentive Plan, \$183 of expense related to the ESPP and \$37 of expense related to the inducement grant) was recognized during 2011.

The Company grants stock option awards and restricted stock awards to its employees, directors, and consultants under the Incentive Plan. Under the Incentive Plan, stock option awards are granted with an exercise price equal to the market price of the Company's stock at the date of grant. Prior to March 1, 2011, stock option awards granted to employees generally vest 25% after one year and monthly thereafter on a pro rata basis over the next three years until fully vested after four years. Commencing March 1, 2011, stock option awards granted to employees generally vest 25% each year until fully vested after four years. In January 2013, the Company made retention grants of stock option awards and restricted stock. These awards vest 50% each year until fully vested after two years. In August 2013, the Company issued 1,032 performance-based stock options. These awards vest upon successful completion of specific development milestones. As of December 31, 2013 and based on the information available at that time, it is not considered probable that any of the specific development milestones will be met and, accordingly, no compensation expense has been recognized for options under this performance based grant award. Stock option awards granted to non-employee directors of the Company generally vest monthly over one year. All stock option awards have contractual terms of 5 to 10 years. The vesting exercise provisions of all awards granted under the Incentive Plan are subject to acceleration in the event of certain stockholder-approved transactions, or upon the occurrence of a change in control as defined in the Incentive Plan.

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Related activity under the Incentive Plan is as follows:

	<u>Awards Available</u>	<u>Options Outstanding</u>	<u>Weighted Average Exercise Price</u>
Balance at December 31, 2010	1,858	6,802	\$ 6.66
Plan amendment	1,600	—	—
Restricted stock awards granted	(211)	—	—
Restricted stock awards cancelled	8	—	—
Stock option awards granted	(1,830)	1,830	3.97
Stock option awards exercised	—	(190)	1.57
Stock option awards cancelled	584	(584)	5.99
Balance at December 31, 2011	2,009	7,858	6.21
Plan amendment	1,700	—	—
Restricted stock awards granted	(415)	—	—
Restricted stock awards cancelled	86	—	—
Stock option awards granted	(1,617)	1,617	4.65
Stock option awards exercised	—	(350)	1.58
Stock option awards cancelled	1,052	(1,052)	6.26
Balance at December 31, 2012	2,815	8,073	6.09
Restricted stock awards granted	(310)	—	—
Restricted stock awards cancelled	53	—	—
Stock option awards granted	(3,277)	3,277	3.05
Stock option awards exercised	—	(563)	2.37
Stock option awards cancelled	1,801	(1,801)	7.22
Balance at December 31, 2013	<u>1,082</u>	<u>8,986</u>	\$ 4.99

For stock option awards granted under the Incentive Plan during 2013, 2012 and 2011, the fair value was estimated on the date of grant using a Black-Scholes option pricing model and the assumptions noted in the table below. The weighted average grant date fair value of these awards granted during 2013, 2012 and 2011 was \$1.28, \$3.24, and \$2.64, respectively. The fair value of the stock option awards is amortized to expense over the vesting periods using a straight-line expense attribution method. The following explanations describe the assumptions used by the Company to value the stock option awards granted during 2013, 2012, and 2011. The expected life is based on the average of the assumption that all outstanding stock option awards will be exercised at full vesting and the assumption that all outstanding stock option awards will be exercised at the midpoint of the current date (if already vested) or at full vesting (if not yet vested) and the full contractual term. For 2011, the expected volatility represents an average of the implied volatility on the Company's publicly traded options, the volatility over the most recent period corresponding with the expected life, and the Company's long-term reversion volatility. For 2012 and 2013, the expected volatility represents the volatility over the most recent period corresponding with the expected life. The Company has assumed no expected dividend yield, as dividends have never been paid to stock or option holders and will not be for the foreseeable future. The weighted average risk-free interest rate is the implied yield currently available on zero-coupon government issues with a remaining term equal to the expected term.

Weighted Average Assumptions for Stock Option Awards Granted under the Incentive Plan

	<u>2013</u>	<u>2012</u>	<u>2011</u>
Expected Life	4.7	5.4	5.5
Expected Volatility	84%	87%	80%
Expected Dividend Yield	0.0%	0.0%	0.0%
Risk-Free Interest Rate	0.7%	0.9%	2.2%

The total intrinsic value of stock option awards exercised under the Incentive Plan was \$738 during 2013, \$877 during 2012, \$374 and during 2011. The intrinsic value represents the total proceeds (fair market value at the date of exercise, less the exercise price, times the number of stock option awards exercised) received by all individuals who exercised stock option awards during the period.

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The following table summarizes, at December 31, 2013, by price range: (1) for stock option awards outstanding under the Incentive Plan, the number of stock option awards outstanding, their weighted average remaining life and their weighted average exercise price; and (2) for stock option awards exercisable under the Plan, the number of stock option awards exercisable and their weighted average exercise price:

Range	Outstanding			Exercisable	
	Number	Weighted Average Remaining Life	Weighted Average Exercise Price	Number	Weighted Average Exercise Price
\$0 to 3	2,526	8.1	\$ 1.50	806	\$ 1.61
3 to 6	3,784	7.6	4.54	1,534	3.95
6 to 9	1,761	4.9	7.33	1,522	7.42
9 to 12	555	3.0	11.62	555	11.62
12 to 15	356	2.4	12.53	356	12.53
15 to 18	4	2.0	15.45	4	15.45
\$0 to 18	8,986	6.7	\$ 4.99	4,777	\$ 6.20

The weighted average remaining contractual life of stock option awards exercisable under the Incentive Plan at December 31, 2013 was 4.9 years.

The aggregate intrinsic value of stock option awards outstanding and exercisable under the Incentive Plan at December 31, 2013 was \$11,189. The aggregate intrinsic value represents the value (the period's closing market price, less the exercise price, times the number of in-the-money stock option awards) that would have been received by all stock option award holders under the Incentive Plan had they exercised their stock option awards at the end of the year.

The total fair value of the stock option awards vested under the Incentive Plan was \$3,483 during 2013, \$3,373 during 2012, and \$4,775 during 2011.

As of December 31, 2013, the number of stock option awards vested and expected to vest under the Incentive Plan is 8,146. The weighted average exercise price of these stock option awards is \$5.11 and their weighted average remaining contractual life is 6.6 years.

The following table summarizes the changes in the number and weighted-average grant-date fair value of non-vested stock option awards during 2013:

	Non-Vested Stock Option Awards	Weighted Average Grant-Date Fair Value
Balance December 31, 2012	2,435	\$ 3.18
Stock option awards granted	3,277	0.80
Stock option awards vested	(1,215)	2.87
Stock option awards forfeited	(288)	2.00
Balance December 31, 2013	<u>4,209</u>	<u>\$ 1.50</u>

As of December 31, 2013, there was approximately \$4,749 of total unrecognized compensation cost related to non-vested employee stock option awards and restricted stock awards granted by the Company. That cost is expected to be recognized as follows: \$2,609 in 2014, \$1,446 in 2015, \$580 in 2016, and \$114 in 2017.

Employee Stock Purchase Plan

The Company has reserved a total of 975 shares of common stock to be purchased under the ESPP, of which 88 shares remain available for purchase at December 31, 2013. Eligible employees may authorize up to 15% of their salary to purchase common stock at the lower of 85% of the beginning or 85% of the ending price during six-month purchase intervals. No more than 3 shares may be purchased by any one employee at the six-month purchase dates and no employee may purchase stock having a fair market value at the commencement date of \$25 or more in any one calendar year.

There were 89, 110 and 94 shares of common stock purchased under the ESPP in 2013, 2012, and 2011, respectively, at a weighted average price per share of \$1.39, \$2.93, and \$3.21, respectively. Expense of \$115, \$157, and \$146, related to the ESPP was recognized during 2013, 2012, and 2011, respectively. Compensation expense for shares purchased under the ESPP related to the purchase discount and the "look-

back” option were determined using a Black-Scholes option pricing model. The weighted average grant date fair values of shares granted under the ESPP during 2013, 2012, and 2011, were \$1.27, \$1.48, and \$1.33, respectively.

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Note 7 — Income Taxes

The Company has incurred net losses since inception and, consequently, has not recorded any U.S. federal and state income tax expense or benefit. The differences between the Company's effective tax rate and the statutory tax rate in 2013, 2012, and 2011 are as follows:

	<u>2013</u>	<u>2012</u>	<u>2011</u>
Income tax benefit at federal statutory rate (35%)	\$(10,538)	\$(13,678)	\$(19,932)
State and local income taxes net of federal tax benefit	(839)	(1,470)	(2,503)
Permanent items	738	754	890
Rate change	1,892	1,147	(2,500)
Expiration of attribute carryforwards	242	5,135	2,884
Research and development tax credits	(1,206)	829	(2,108)
Other	1,144	281	731
Change in valuation allowance	8,567	7,002	22,538
Income tax expense	<u>\$ —</u>	<u>\$ —</u>	<u>\$ —</u>

The Company recognizes the impact of a tax position in its financial statements if it is more likely than not that the position will be sustained on audit based on the technical merits of the position. The Company has concluded that it has an uncertain tax position pertaining to its research and development credit carryforwards. The Company has established these credits based on information and calculations it believes are appropriate and the best estimate of the underlying credit. Any changes to the Company's unrecognized tax benefits are offset by an adjustment to the valuation allowance and there would be no impact on the Company's financial statements. The Company does not expect its unrecognized tax benefits to change significantly over the next 12 months.

A reconciliation of the beginning and ending amount of unrecognized tax benefits is as follows:

	<u>2013</u>	<u>2012</u>
Balance at January 1	\$—	\$—
Additions to current year tax positions	43	—
Additions to tax positions of prior years	241	—
Reductions for tax provisions of prior years	—	—
Balance at December 31	<u>\$284</u>	<u>\$—</u>

Additionally, utilization of the Company's net operating loss carryforwards could be subject to a substantial annual limitation due to ownership change limitations as described in Section 382 of the Internal Revenue Code and similar state provisions. The Company has performed an analysis as of December 31, 2013, and has determined that it has incurred changes in control as defined under Section 382. These ownership changes may limit the amount of net operating losses that can be utilized annually to offset future taxable income and tax.

Significant components of the Company's deferred tax assets and liabilities are as follows:

	<u>2013</u>	<u>2012</u>
Deferred tax assets:		
Net federal and state operating losses	\$ 119,940	\$ 108,498
Research and development credits	37,348	36,142
Fixed assets	1,119	1,185
Reserve for inventories	1,612	1,654
Deferred revenue	2,151	2,645
Stock-based compensation	5,282	6,475
Foreign currency derivative	(207)	1,851
Other	311	539
Total deferred tax assets	167,556	158,989
Valuation allowance	(167,556)	(158,989)
Total deferred tax liabilities	—	—
Net deferred tax assets	<u>\$ —</u>	<u>\$ —</u>

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The majority of the Company's deferred tax assets relate to net operating loss and research and development carryforwards that can only be realized if the Company is profitable in future periods. It is uncertain whether the Company will realize any tax benefit related to these carryforwards. Accordingly, the Company has provided a full valuation allowance against the net deferred tax assets due to uncertainties as to their ultimate realization. The valuation allowance will remain at the full amount of the deferred tax assets until it is more likely than not that the related tax benefits will be realized. The Company's valuation allowance increased by \$8,567 in 2013, \$7,002 in 2012, and \$22,538 in 2011.

As of December 31, 2013, the Company had federal operating loss carryforwards of \$310,259, state operating loss carryforwards of \$332,818, and research and development credit carryforwards of \$37,348, which will expire at various dates from 2014 through 2033.

The Company's federal and state operating loss carryforwards include \$4,474 of excess tax benefits related to a deduction from the exercise of stock options. The tax benefit of these deductions has not been recognized in deferred tax assets. If utilized, the benefits from these deductions will be recorded as adjustments to additional paid-in capital.

Tax years 2010-2012 remain open to examination by the major taxing jurisdictions to which the Company is subject. Additionally, years prior to 2010 are also open to examination to the extent of loss and credit carryforwards from those years. The Company recognizes interest and penalties accrued related to unrecognized tax benefits as components of its income tax provision. However, there were no provisions or accruals for interest and penalties in 2013, 2012, and 2011.

The American Taxpayer Relief Act of 2012 (the "Act") was signed into law on January 2, 2013. The Act retroactively restored several expired business tax provisions, including the research and development credit. Because a change in tax law is accounted for in the period of enactment, the retroactive effect of the Act on the Company's research and development business credit carryforward has been recorded in 2013 for 2012 activities. The deferred tax asset related to general business credits has also been adjusted in 2013 due to this retroactive treatment.

Note 8 — Employee 401(k) Plan

In January 1991, the Company adopted an employee retirement plan ("401(k) Plan") under Section 401(k) of the Internal Revenue Code covering all employees. Employee contributions may be made to the 401(k) Plan up to limits established by the Internal Revenue Service. Company matching contributions may be made at the discretion of the Board of Directors. The Company made matching contributions of \$313, \$418, and \$391, in 2013, 2012, and 2011, respectively.

Note 9 — Collaborative and Other Research and Development Contracts

U.S. Department of Health and Human Services ("BARDA/HHS"). In January 2007, the U.S. Department of Health and Human Services ("BARDA/HHS") awarded the Company a \$102,661, four-year contract for the advanced development of peramivir for the treatment of influenza. During 2009, peramivir clinical development shifted to focus on intravenous delivery and the treatment of hospitalized patients. To support this focus, a September 2009 contract modification was awarded to extend the intravenous ("i.v.") peramivir program by 12 months and to increase funding by \$77,191. On February 24, 2011, the Company announced that BARDA/HHS had awarded it a \$55,000 contract modification, intended to fund completion of the Phase 3 development of i.v. peramivir for the treatment of patients hospitalized with influenza. This contract modification brings the total award from BARDA/HHS to \$234,852 and provides funding to support the filing of a NDA to seek regulatory approval for i.v. peramivir in the U.S. In December 2013, BioCryst submitted a NDA filing for i.v. peramivir to the FDA seeking an indication as the first i.v. neuraminidase inhibitor approved in the U.S. for the treatment of acute uncomplicated influenza in adults.

National Institute of Allergy and Infectious Diseases ("NIAID/HHS"). In September 2013, NIAID/HHS contracted with the Company for the development of BCX4430 as a treatment for Marburg virus disease. NIAID/HHS, part of the National Institutes of Health, made an initial award of \$5.0 million to the Company. The total funding under this contract could be up to \$22.0 million, if all contract options are exercised by NIAID/HHS, over a five year period. The goals of this contract are to file IND applications for intravenous i.v. and i.m. BCX4430 for the treatment of Marburg virus disease, and to conduct an initial Phase 1 human clinical trial. The aggregate \$22.0 million contract and option funding supports the appropriate IND-enabling program and the initial clinical trial. As of December 31, 2013, a total of \$7.5 million has been awarded under exercised options within the contract. BCX4430 is the lead compound in the Company's BSAV research program.

The contracts with BARDA/HHS and NIAID/HHS are cost-plus-fixed-fee contracts. That is, the Company is entitled to receive reimbursement for all costs incurred in accordance with the contracts provisions that are related to the development of peramivir and BCX4430 plus a fixed fee, or profit. BARDA/HHS and NIAID/HHS will make periodic assessments of progress and the continuation of the contract is based on the Company's performance, the timeliness and quality of deliverables, and other factors. The government has rights under certain contract clauses to terminate these contracts. These contracts are terminable by the government at any time for breach or without cause.

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Shionogi & Co., Ltd. (“Shionogi”). In March 2007, the Company entered into an exclusive license agreement with Shionogi to develop and commercialize peramivir in Japan for the treatment of seasonal and potentially life-threatening human influenza. Under the terms of the agreement, Shionogi obtained rights to injectable formulations of peramivir in Japan. The Company developed peramivir under a license from UAB and will owe sublicense payments to them on any future milestone payments and/or royalties received by the Company from Shionogi. In October 2008, the Company and Shionogi amended the license agreement to expand the territory covered by the agreement to include Taiwan and to provide rights for Shionogi to perform a Phase 3 clinical trial in Hong Kong. Shionogi has commercially launched peramivir under the commercial name RAPIACTA in Japan.

Green Cross Corporation (“Green Cross”). In June 2006, the Company entered into an agreement with Green Cross to develop and commercialize peramivir in Korea. Under the terms of the agreement, Green Cross will be responsible for all development, regulatory, and commercialization costs in Korea. The Company received a one-time license fee of \$250. The license also provides that the Company will share in profits resulting from the sale of peramivir in Korea, including the sale of peramivir to the Korean government for stockpiling purposes. Furthermore, Green Cross will pay the Company a premium over its cost to supply peramivir for development and any future marketing of peramivir products in Korea.

Mundipharma International Holdings Limited (“Mundipharma”). In February 2006, the Company entered into an exclusive, royalty bearing right and license agreement with Mundipharma for the development and commercialization of forodesine, a Purine Nucleoside Phosphorylase (“PNP”) inhibitor, for use in oncology (the “Original Agreement”). Under the terms of the Original Agreement, Mundipharma obtained rights to forodesine in markets across Europe, Asia, and Australasia in exchange for a \$10,000 up-front payment.

The Company deferred revenue recognition of the \$10,000 up-front payment that was received from Mundipharma in February 2006 because the Company was involved in the continued development of forodesine. Amortization of this revenue commenced in February 2006 and was initially scheduled to end in October 2017, which is the date of expiration for the last-to-expire patent covered by the agreement. The Company also deferred revenue recognition of a \$5,000 payment received from Mundipharma in connection with the initiation of a clinical trial in 2007. Amortization of this deferred revenue commenced in 2007 and was initially scheduled to end in October 2017. Under its agreement with AECOM/IRL, the Company paid sublicense payments related to these upfront cash payments received from Mundipharma. Expense recognition of these sublicense payments was deferred and recognized under the same term as the related deferred revenue.

On November 11, 2011, the Company entered into the Amended and Restated License and Development Agreement (the “Amended and Restated Agreement”) with Mundipharma, amending and restating the Original Agreement. Under the terms of the Amended and Restated Agreement, Mundipharma obtained worldwide rights to forodesine. Commencing on November 11, 2011, Mundipharma controls the development and commercialization of forodesine and assumes all future development and commercialization costs. The Amended and Restated Agreement provides for the possibility of future event payments totaling \$15,000 for achieving specified regulatory events for certain indications and tiered royalties ranging from mid to high single-digit percentages of net product sales in each country where forodesine is sold by Mundipharma. These royalties are subject to downward adjustments based on the then-existing patent coverage and/or the availability of generic compounds in each country.

The Amended and Restated Agreement is a multiple element arrangement for accounting purposes, in which the Company is required to deliver to Mundipharma both the worldwide rights to forodesine in the field of oncology and the transfer of product data and know-how to permit Mundipharma to develop and commercialize forodesine (the “Knowledge Transfer”). The Company accounted for these elements as a combined unit of accounting as they do not have stand-alone value to Mundipharma. The worldwide license rights were granted to Mundipharma on November 11, 2011 and the Knowledge Transfer was completed during the first quarter of 2012. Completion of the Knowledge Transfer concludes the Company’s obligations under the Amended and Restated Agreement and resulted in the recognition of the unamortized deferred revenue and expense of \$7,766 and \$1,864, respectively, in the Consolidated Statements of Comprehensive Loss for the year ended December 31, 2012.

Albert Einstein College of Medicine of Yeshiva University and Industrial Research, Ltd. (“AECOM” and “IRL” respectively). In June 2000, the Company licensed a series of potent inhibitors of PNP from AECOM and IRL, (collectively, the “Licensors”). The lead product candidates from this collaboration are forodesine and ulodesine. The Company has obtained worldwide exclusive rights to develop and ultimately distribute these, or any other, product candidates that might arise from research on these inhibitors. The Company has the option to expand the Agreement to include other inventions in the field made by the investigators or employees of the Licensors. The Company agreed to use commercially reasonable efforts to develop these drugs. In addition, the Company has agreed to pay certain milestone payments for each licensed product (which range in the aggregate from \$1,400 to almost \$4,000 per indication) for future development of these inhibitors, single digit royalties on net sales of any resulting product made by the Company, and to share approximately one quarter of future payments received from other third-party partners, if any. In addition, the Company has agreed to pay annual license fees, which can range from \$150 to \$500, that are creditable against actual royalties and other payments due to the Licensors. This agreement may be terminated by the Company at any time by giving 60 days advance notice or in the event of material uncured breach by the Licensors.

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BIOCRYST PHARMACEUTICALS, INC. NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (In thousands, except per share amounts)

In May 2010, the Company amended the licensee agreement through which the Company obtained worldwide exclusive rights to develop and ultimately distribute any product candidates that might arise from research on a series of PNP inhibitors, including forodesine and ulodesine. Under the terms of the amendment, the Licensors agreed to accept a reduction of one-half in the percentage of future payments received from third-party sub licensees of the licensed PNP inhibitors that must be paid to the Licensors. This reduction does not apply to (i) any milestone payments the Company may receive in the future under its license agreement dated February 1, 2006 with Mundipharma and (ii) royalties received from its sub licensees in connection with the sale of licensed products, for which the original payment rate will remain in effect. The rate of royalty payments to the Licensors based on net sales of any resulting product made by the Company remains unchanged.

In consideration for these modifications in 2010, the Company issued to the Licensors shares of its common stock with an aggregate value of \$5,911 and paid the Licensors \$90 in cash. Additionally, at the Company's sole option and subject to certain agreed upon conditions, any future non-royalty payments due to be paid by it to the Licensors under the license agreement may be made either in cash, in shares of its common stock, or in a combination of cash and shares.

On November 17, 2011, the Company further amended its agreements with the Licensors whereby the Licensors agreed to accept a reduction of one-half in the percentage of Net Proceeds (as defined) received by the Company under its Amended and Restated Agreement with Mundipharma that will be paid to AECOM/IRL.

On June 19, 2012, the Company further amended its agreements with AECOM/IRL whereby the parties clarified the definition of the field with respect to PNP inhibition and AECOM/IRL agreed to exclusive worldwide license of BCX4430 to BioCryst for any antiviral use.

At its sole option and subject to certain agreed upon conditions, any future non-royalty payments due to be paid by the Company to AECOM/IRL under the license agreement may be made either in cash, in shares of the Company's common stock, or in a combination of cash and shares.

The University of Alabama at Birmingham ("UAB"). The Company currently has agreements with UAB for influenza neuraminidase and complement inhibitors. Under the terms of these agreements, UAB performed specific research for the Company in return for research payments and license fees. UAB has granted the Company certain rights to any discoveries in these areas resulting from research developed by UAB or jointly developed with the Company. The Company has agreed to pay single digit royalties on sales of any resulting product and to share in future payments received from other third-party partners. The Company has completed the research under the UAB agreements. These two agreements have initial 25-year terms, are automatically renewable for five-year terms throughout the life of the last patent and are terminable by the Company upon three months notice and by UAB under certain circumstances. Upon termination both parties shall cease using the other parties' proprietary and confidential information and materials, the parties shall jointly own joint inventions and UAB shall resume full ownership of all UAB licensed products. There is currently no activity between the Company and UAB on these agreements, but when the Company licenses this technology, such as in the case of the Shionogi and Green Cross agreements, or commercializes products related to these programs, the Company will owe sublicense fees or royalties on amounts it receives.

Note 10 — Quarterly Financial Information (Unaudited)

	<u>First</u>	<u>Second</u>	<u>Third</u>	<u>Fourth</u>
2013 Quarters				
Revenues	\$ 3,554	\$ 821	\$ 2,389	\$ 10,567
Net Loss	(4,506)	(12,172)	(8,001)	(5,429)
Basic and diluted net loss per share	(0.09)	(0.23)	(0.14)	(0.09)
2012 Quarters				
Revenues	\$12,221	\$ 4,210	\$ 5,761	\$ 4,101
Net Loss	(6,052)	(12,276)	(9,700)	(11,053)
Basic and diluted net loss per share	(0.13)	(0.25)	(0.19)	(0.22)

Note 11 — Recent Accounting Pronouncements

On February 5, 2013, the Financial Accounting Standards Board issued an amendment to ASU 2013-02, "Comprehensive Income (Topic 220)" ("ASU 2013-02") to the disclosure requirements for reporting reclassifications out of accumulated other comprehensive income. ASU 2013-02 was effective for the first interim or annual period beginning after December 15, 2012. The amendment requires companies to present information about reclassification adjustments from accumulated other comprehensive income to the income statement, including the income statement line items affected by the reclassification. The information must be presented in the financial statements in a single note or on the face of the financial statements. The new accounting guidance also requires the disclosure to be cross referenced to other financial statement disclosures for reclassification items that are not reclassified to net income in their entirety in the same reporting period. The Company adopted ASU 2013-02 in the first quarter of 2013. The adoption did not have a material impact on the Company's consolidated financial position, results

of operations, or cash flows.

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Report of Independent Registered Public Accounting Firm on Consolidated Financial Statements

The Board of Directors and Stockholders
BioCryst Pharmaceuticals, Inc.

We have audited the consolidated balance sheets of BioCryst Pharmaceuticals, Inc. as of December 31, 2013 and 2012, and the related consolidated statements of comprehensive loss, stockholders' equity and cash flows for each of the three years in the period ended December 31, 2013. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the consolidated financial position of BioCryst Pharmaceuticals, Inc. at December 31, 2013 and 2012, and the consolidated results of its operations and its cash flows for each of the three years in the period ended December 31, 2013, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), BioCryst Pharmaceuticals, Inc.'s internal control over financial reporting as of December 31, 2013, based on criteria established in *Internal Control-Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission (1992 Framework) and our report dated March 10, 2014 expressed an unqualified opinion thereon.

/s/ Ernst & Young LLP

Raleigh, North Carolina
March 10, 2014

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Report of Independent Registered Public Accounting Firm on Internal Control

The Board of Directors and Stockholders
BioCryst Pharmaceuticals, Inc.

We have audited BioCryst Pharmaceuticals, Inc.'s internal control over financial reporting as of December 31, 2013, based on criteria established in *Internal Control-Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission (1992 Framework) (the COSO criteria). BioCryst Pharmaceuticals, Inc.'s management is responsible for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying Management's Report on Internal Control Over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit.

We conducted our audit in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

In our opinion, BioCryst Pharmaceuticals, Inc. maintained, in all material respects, effective internal control over financial reporting as of December 31, 2013, based on the COSO criteria.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the consolidated balance sheets of BioCryst Pharmaceuticals, Inc. as of December 31, 2013 and 2012, and the related consolidated statements of comprehensive loss, stockholders' equity, and cash flows for each of the three years in the period ended December 31, 2013 of BioCryst Pharmaceuticals, Inc. and our report dated March 10, 2014 expressed an unqualified opinion thereon.

/s/ Ernst & Young LLP

Raleigh, North Carolina
March 10, 2014

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ITEM 9. *CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE*

None.

ITEM 9A. *CONTROLS AND PROCEDURES*

Evaluation of Disclosure Controls and Procedures

We maintain a set of disclosure controls and procedures that are designed to ensure that information relating to BioCryst Pharmaceuticals, Inc. required to be disclosed in our periodic filings under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), is recorded, processed, summarized and reported in a timely manner under the Exchange Act of 1934. We carried out an evaluation as required by paragraph (b) of Rule 13a-15 or Rule 15d-15 under the Exchange Act, under the supervision and with the participation of management, including our Chief Executive Officer and Chief Financial Officer, of the effectiveness of the design and operation of our disclosure controls and procedures (as defined in Rule 13a-15(e) or Rule 15d-15 under the Exchange Act). Based upon that evaluation, the Chief Executive Officer and Chief Financial Officer concluded that, as of December 31, 2013, our disclosure controls and procedures are effective. We believe that our disclosure controls and procedures will ensure that information required to be disclosed in the reports filed or submitted by us under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the rules and forms of the Securities and Exchange Commission, and include controls and procedures designed to ensure that information required to be disclosed by us in such reports is accumulated and communicated to our management, including our Chairman and Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

Management's Report on Internal Control Over Financial Reporting

Management of BioCryst Pharmaceuticals, Inc. is responsible for establishing and maintaining adequate internal control over financial reporting and for the assessment of the effectiveness of internal control over financial reporting. As defined by the Securities and Exchange Commission, internal control over financial reporting is a process designed by, or under the supervision of our principal executive and principal financial officers and effected by our Board of Directors, management and other personnel, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of the financial statements in accordance with U.S. generally accepted accounting principles.

Our internal control over financial reporting is supported by written policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect our transactions and dispositions of our assets; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of the financial statements in accordance with generally accepted accounting principles, and that our receipts and expenditures are being made only in accordance with authorizations of our management and directors; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of our assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

In connection with the preparation of our annual financial statements, management has undertaken an assessment of the effectiveness of our internal control over financial reporting as of December 31, 2013, based on criteria established in Internal Control — Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (1992 Framework) (the COSO Framework). Management's assessment included an evaluation of the design of our internal control over financial reporting and testing of the operational effectiveness of those controls.

Based on this assessment, management has concluded that as of December 31, 2013, our internal control over financial reporting was effective. Management believes our internal control over financial reporting will provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with U.S. generally accepted accounting principles.

Ernst & Young LLP, the independent registered public accounting firm that audited our financial statements included in this report, has issued an attestation report on the Company's internal control over financial reporting, a copy of which appears on page 59 of this annual report.

Changes in Internal Control over Financial Reporting

There have been no changes in our internal control over financial reporting that occurred during the quarter ended December 31, 2013 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

ITEM 9B. *OTHER INFORMATION*

None.

PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

The information required by this item is set forth under the captions “*Items to be Voted on — 1. Election of Directors,*” “*Executive Officers,*” “*Section 16(a) Beneficial Ownership Reporting Compliance*” and “*Corporate Governance*” in our definitive Proxy Statement for the 2014 Annual Meeting of Stockholders and incorporated herein by reference.

ITEM 11. EXECUTIVE COMPENSATION

The information required by this item is set forth under the captions “*Compensation Discussion and Analysis,*” “*Summary Compensation Table,*” “*Grants of Plan-Based Awards in 2013,*” “*Outstanding Equity Awards at December 31, 2013,*” “*2013 Option Exercises and Stock Vested,*” “*Potential Payments Upon Termination or Change in Control,*” “*2013 Director Compensation,*” “*Compensation Committee Interlocks and Insider Participation*” and “*Compensation Committee Report*” in our definitive Proxy Statement for the 2014 Annual Meeting of Stockholders and incorporated herein by reference.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

The information required by this item is set forth under the captions “*Equity Compensation Plan Information*” and “*Security Ownership of Certain Beneficial Owners and Management*” in our definitive Proxy Statement for the 2014 Annual Meeting of Stockholders and incorporated herein by reference.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

The information required by this item is set forth under the captions “*Certain Relationships and Related Transactions*” and “*Corporate Governance*” in our definitive Proxy Statement for the 2013 Annual Meeting of Stockholders and incorporated herein by reference.

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

The information required by this item is set forth under the caption “*2. Ratification of Appointment of Independent Registered Public Accountants*” in our definitive Proxy Statement for the 2014 Annual Meeting of Stockholders and incorporated herein by reference.

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PART IV

ITEM 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULES

(a) Financial Statements

The following financial statements appear in Item 8 of this Form 10-K:

	Page in Form 10-K
Consolidated Balance Sheets at December 31, 2013 and 2012	39
Consolidated Statements of Comprehensive Loss for the years ended December 31, 2013, 2012 and 2011	40
Consolidated Statements of Stockholders' Equity for the years ended December 31, 2013, 2012 and 2011	41
Consolidated Statements of Cash Flows for the years ended December 31, 2013, 2012 and 2011	42
Notes to Consolidated Financial Statements	43
Report of Independent Registered Public Accounting Firm on Consolidated Financial Statements	58
Report of Independent Registered Public Accounting Firm on Internal Control	59

No financial statement schedules are included because the information is either provided in the consolidated financial statements or is not required under the related instructions or is inapplicable and such schedules therefore have been omitted.

(b) Exhibits. See Index of Exhibits.

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SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized on March 10, 2014.

BIOCRYST PHARMACEUTICALS, INC.

By: /s/ Jon P. Stonehouse
Jon P. Stonehouse
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities indicated on March 10, 2014:

<u>Signature</u>	<u>Title(s)</u>
<u>/s/ Jon P. Stonehouse</u> (Jon P. Stonehouse)	President, Chief Executive Officer and Director (Principal Executive Officer)
<u>/s/ Thomas R. Staab II</u> (Thomas R. Staab II)	Senior Vice President, Chief Financial Officer and Treasurer (Principal Financial Officer and Principal Accounting Officer)
<u>/s/ George B. Abercrombie</u> (George B. Abercrombie)	Director
<u>/s/ Fred E. Cohen</u> (Fred E. Cohen, M.D., D. Phil)	Director
<u>/s/ Stanley C. Erck</u> (Stanley C. Erck)	Director
<u>/s/ Nancy Hutson</u> (Nancy Hutson, Ph.D.)	Director
<u>/s/ Peder K. Jensen</u> (Peder K. Jensen, M.D.)	Director
<u>/s/ Kenneth B. Lee, Jr.</u> (Kenneth B. Lee, Jr.)	Director
<u>/s/ Charles A. Sanders</u> (Charles A. Sanders, M.D.)	Director

INDEX TO EXHIBITS

<u>Number</u>	<u>Description</u>
3.1	Third Restated Certificate of Incorporation of Registrant. Incorporated by reference to Exhibit 3.1 to the Company's Form 8-K filed December 22, 2006.
3.2	Certificate of Amendment to the Third Restated Certificate of Incorporation of Registrant. Incorporated by reference to Exhibit 3.1 to the Company's Form 8-K filed July 24, 2007.
3.3	Certificate of Increase of Authorized Number of Shares of Series B Junior Participating Preferred Stock. Incorporated by reference to Exhibit 3.1 to the Company's Form 8-K filed November 4, 2008.
3.4	Amended and Restated Bylaws of Registrant effective October 29, 2008. Incorporated by reference to Exhibit 3.2 to the Company's Form 8-K filed November 4, 2008.
4.3	Indenture, dated as of March 9, 2011 by and between JPR Royalty Sub LLC and U.S. Bank National Association, as trustee. Incorporated by reference to Exhibit 4.3 of the Company's Form 10-Q filed May 6, 2011.
10.1&	Amended and Restated Stock Incentive Plan dated March 29, 2012. Incorporated by reference to Exhibit 10.1 of the Company's Form 8-K, filed May 25, 2012.
10.2&	Amended and Restated Employee Stock Purchase Plan dated March 29, 2012. Incorporated by reference to the Company's Form 8-K, filed May 25, 2012.
10.3&	Form of Notice of Grant of Non-Employee Director Automatic Stock Option and Stock Option Agreement. Incorporated by reference to Exhibit 10.4 of the Company's Form 10-K filed March 4, 2008.
10.4&	Form of Notice of Grant of Stock Option and Stock Option Agreement. Incorporated by reference to Exhibit 10.5 of the Company's Form 10-K filed March 4, 2008.
10.5&	Annual Incentive Plan. Incorporated by reference to Exhibit 10.1 of the Company's Form 8-K filed March 12, 2012.
10.6&	Executive Relocation Policy. Incorporated by reference to Exhibit 10.2 of the Company's Form 10-K filed March 4, 2008.
10.7&	Amended and Restated Employment Letter Agreement dated February 14, 2007, by and between the Company and Jon P. Stonehouse. Incorporated by reference to Exhibit 10.12 to the Company's Form 10-K for the year ended December 31, 2006, filed March 14, 2007.
10.8&	Employment Letter Agreement between BioCryst Pharmaceuticals, Inc. and Thomas R. Staab II, dated May 23, 2011. Incorporated by reference to Exhibit 10.1 of the Company's Form 8-K filed May 25, 2011.
10.9&	Employment Letter Agreement between BioCryst Pharmaceuticals, Inc. and William P. Sheridan dated June 12, 2008. Incorporated by reference to Exhibit 10.27 of the Company's Form 10-Q filed August 8, 2008.
(10.10)&	Employment Letter Agreement between BioCryst Pharmaceuticals, Inc. and Yarlagadda S. Babu dated April 27, 2012.
(10.11)&	Employment Letter Agreement between BioCryst Pharmaceuticals, Inc. and Alane P. Barnes dated August 8, 2013.
10.12#	Agreement dated January 3, 2007, between BioCryst Pharmaceuticals, Inc. and the Department of Health and Human Services, as amended by Amendment number 1 dated January 3, 2007 and Amendment number 2 dated May 11, 2007. Incorporated by reference to Exhibit 10.3 to the Company's Form 10-Q filed August 9, 2007. (Portions omitted pursuant to request for confidential treatment.)
10.13	Amendment #3 to the Agreement between BioCryst Pharmaceuticals, Inc. and the Department of Health and Human Services, dated October 2, 2007. Incorporated by reference to Exhibit 10.6 of the Company's Form 10-K filed March 4, 2008.
10.14	Amendment #4 to the Agreement between BioCryst Pharmaceuticals, Inc. and the Department of Health and Human Services dated April 3, 2008. Incorporated by reference to Exhibit 10.29 of the Company's Form 10-Q filed August 8, 2008.
10.15	Amendment #5 to the Agreement between BioCryst Pharmaceuticals, Inc. and the Department of Health and Human Services dated July 2, 2008. Incorporated by reference to Exhibit 10.30 of the Company's Form 10-Q filed August 8, 2008.
10.16	Amendment #6 to the Agreement between BioCryst Pharmaceuticals, Inc. and the Department of Health and Human Services dated August 18, 2008. Incorporated by reference to Exhibit 10.1 of the Company's Form 8-K filed November 7, 2008.

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- 10.17 Amendment #7 to the Agreement between BioCryst Pharmaceuticals, Inc. and the Department of Health and Human Services dated November 17, 2008. Incorporated by reference to Exhibit 10.12 of the Company's Form 10-K filed March 6, 2009.
- 10.18 Amendment #8 to the Agreement between BioCryst Pharmaceuticals, Inc. and the Department of Health and Human Services dated March 13, 2009. Incorporated by reference to Exhibit 10.13 of the Company's Form 10-K filed March 9, 2010.
- 10.19 Amendment #9 to the Agreement between BioCryst Pharmaceuticals, Inc. and the Department of Health and Human Services dated September 18, 2009. Incorporated by reference to Exhibit 10.1 of the Company's Form 10-Q filed November 6, 2009.
- 10.20 Amendment #10 to the Agreement between the Company and the U.S. Department of Health & Human Services, dated October 15, 2009. Incorporated by reference to Exhibit 10.2 of the Company's Form 10-Q filed November 6, 2009.
- 10.21 Amendment #11 to the Agreement between the Company and the U.S. Department of Health & Human Services, dated February 23, 2011. Incorporated by reference to Exhibit 10.25 of the Company's Form 10-K filed March 15, 2011.
- 10.22 Stop-Work Order from U.S. Department of Health and Human Services, dated March 26, 2013, relating to Agreement dated January 3, 2007 between the Company and the U.S. Department of Health and Human Services. Incorporated by reference to Exhibit 10.1 of the Company's Form 10-Q filed May 9, 2013.
- (10.23) Amendment #13 to the Agreement between the Company and the U.S. Department of Health & Human Services, dated February 15, 2012.
- 10.24 Amendment #14 to the Agreement between the Company and the U.S. Department of Health & Human Services, dated June 4, 2013. Incorporated by reference to Exhibit 10.1 of the Company's Form 10-Q filed June 5, 2013.
- 10.25# Amendment #15 to the Agreement between the Company and the U.S. Department of Health & Human Services, dated September 5, 2013. Incorporated by reference to Exhibit 10.1 of the Company's Form 10-Q filed November 8, 2013. (Portions omitted pursuant to request for confidential treatment.)
- 10.26 Amendment #16 to the Agreement between the Company and the U.S. Department of Health & Human Services, dated December 17, 2013. Incorporated by reference to Exhibit 10.1 of the Company's Form 8-K filed December 23, 2013.
- 10.27 Amendment #17 to the Agreement between the Company and the U.S. Department of Health & Human Services, dated February 21, 2014. Incorporated by reference to Exhibit 10.1 of the Company's Form 8-K filed February 26, 2014.
- 10.28 Order for Supplies or Services from the U.S. Department of Health & Human Services, dated November 4, 2009. Incorporated by reference to Exhibit 10.16 of the Company's Form 10-K filed March 9, 2010.
- 10.29# License, Development and Commercialization Agreement dated as of February 28, 2007, by and between the Company and Shionogi & Co., Ltd. Incorporated by reference to Exhibit 10.4 to the Company's Form 10-Q filed May 10, 2007. (Portions omitted pursuant to request for confidential treatment.)
- 10.30# First Amendment to License, Development and Commercialization Agreement, effective as of September 30, 2008, between the Company and Shionogi & Co., Ltd. Incorporated by reference to Exhibit 10.19 to the Company's Form 10-K filed March 6, 2009. (Portions omitted pursuant to request for confidential treatment.)
- 10.31 Riverchase Business Park Warehouse Lease dated July 12, 2000 between RBP, LLC an Alabama Limited Liability Company and the Registrant for office/warehouse space. Incorporated by reference to Exhibit 10.8 to the Company's Form 10-Q for the second quarter ending June 30, 2000 filed August 8, 2000.
- 10.32 Third Amendment to Lease Agreement dated August 7, 2007, by and between Riverchase Capital LLC, a Florida limited liability company, Stow Riverchase, LLC, a Florida limited liability company, as successor landlord to RBP, LLC and the Company. Incorporated by reference to Exhibit 10.4 of the Company's Form 10-Q filed August 9, 2007.
- 10.33 Fourth Amendment to the Lease Agreement dated February 1, 2012, by and between Riverchase Capital LLC, a Florida limited liability company, Stow Riverchase, LLC, a Florida limited liability company, as successor landlord to RBP, LLC and the Company. Incorporated by reference to Exhibit 10.27 of the Company's Form 10-K filed March 11, 2013.
- 10.34 Stock and Warrant Purchase Agreement dated as of August 6, 2007, by and among BioCryst Pharmaceuticals, Inc. and each of the Investors identified on the signature pages thereto. Incorporated by reference to Exhibit 4.1 of the Company's Form 8-K filed August 7, 2007.

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- 10.35 Stock Purchase Agreement, dated as of February 17, 2005, by and among BioCryst Pharmaceuticals, Inc., Baker Bros. Investments, L.P., Baker Biotech Fund II, L.P., Baker Bros. Investments II, L.P., Baker Biotech Fund II (Z), L.P., Baker/Tisch Investments, L.P., Baker Biotech Fund III, L.P., Baker Biotech Fund I, L.P., Baker Biotech Fund III (Z), L.P. and 14159, L.P. Incorporated by reference to Exhibit 4.1 to the Company's Form 8-K filed February 17, 2005.
- 10.36# Development and License Agreement dated as of February 1, 2006, by and between BioCryst Pharmaceuticals, Inc. and Mundipharma International Holdings Limited. Incorporated by reference to Exhibit 10.2 to the Company's Form 8-K/A filed May 2, 2006. (Portions omitted pursuant to request for confidential treatment.)
- 10.37# Amended and Restated Development and License Agreement, dated as of November 11, 2011, by and between BioCryst Pharmaceuticals, Inc. and Mundipharma International Corporation Limited. Incorporated by reference to Exhibit 10.32 to the Company's Form 10-K filed March 6, 2012. (Portions omitted pursuant to request for confidential treatment.)
- 10.38# License Agreement dated as of June 27, 2000, by and among Albert Einstein College of Medicine, Industrial Research, Ltd. and BioCryst Pharmaceuticals, Inc., as amended by the First Amendment Agreement dated as of July 26, 2002 and the Second Amendment Agreement dated as of April 15, 2005. Incorporated by reference to Exhibit 10.1 to the Company's Form 8-K filed November 30, 2005. (Portions omitted pursuant to request for confidential treatment.)
- 10.39# Third Amendment Agreement by and among Albert Einstein College of Medicine, Industrial Research, Ltd. and BioCryst Pharmaceuticals, Inc., dated as of December 11, 2009. Incorporated by reference to Exhibit 10.33 to the Company's Form 10-K filed March 9, 2010. (Portions omitted pursuant to request for confidential treatment.)
- 10.40# Fourth Amendment Agreement by and among Albert Einstein College of Medicine, Industrial Research, Ltd. and BioCryst Pharmaceuticals, Inc., dated as of May 5, 2010. Incorporated by reference to Exhibit 10.1 to the Company's Form 10-Q filed August 6, 2010. (Portions omitted pursuant to request for confidential treatment.)
- 10.41# Fifth Amendment Agreement by and among Albert Einstein College of Medicine, Industrial Research, Ltd. and BioCryst Pharmaceuticals, Inc., dated as of November 17, 2011. Incorporated by reference to Exhibit 10.36 to the Company's Form 10-K filed March 6, 2012. (Portions omitted pursuant to request for confidential treatment.)
- 10.42# Sixth Amendment Agreement by and among Albert Einstein College of Medicine, Industrial Research, Ltd. and BioCryst Pharmaceuticals, Inc., dated as of June 19, 2012. Incorporated by reference to Exhibit 10.1 to the Company's Form 10-Q filed August 8, 2012. (Portions omitted pursuant to request for confidential treatment.)
- 10.43 Stock Purchase Agreement, dated as of December 14, 2005, by and among BioCryst Pharmaceuticals, Inc., Kleiner Perkins Caufield & Byers, Texas Pacific Group Ventures and KPTV, LLC. Incorporated by reference to Exhibit 4.1 to the Company's Form 8-K filed December 16, 2005.
- 10.44 Nomination and Observer Agreement, dated as of December 16, 2005, by and between BioCryst Pharmaceuticals, Inc. and Kleiner Perkins Caufield & Byers. Incorporated by reference to Exhibit 4.2 to the Company's Form 8-K filed December 16, 2005.
- 10.45 Purchase and Sale Agreement, dated as of March 9, 2011 between BioCryst Pharmaceuticals, Inc. and JPR Royalty Sub LLC. Incorporated by reference to Exhibit 10.1 of the Company's Form 10-Q filed May 6, 2011.
- 10.46 Pledge and Security Agreement, dated as of March 9, 2011 between BioCryst Pharmaceuticals, Inc. and U.S. Bank National Association, as trustee. Incorporated by reference to Exhibit 10.2 of the Company's Form 10-Q filed May 6, 2011.
- 10.47 Confirmation of terms and conditions of ISDA Master Agreement, dated as of March 7, 2011, between Morgan Stanley Capital Services Inc. and BioCryst Pharmaceuticals, Inc. dated as of March 9, 2011. Incorporated by reference to Exhibit 10.3 of the Company's Form 10-Q filed May 6, 2011.
- 10.48 At Market Issuance Sales Agreement, dated June 28, 2011, by and between BioCryst Pharmaceuticals, Inc. and McNicoll, Lewis & Vlak LLC. Incorporated by reference to Exhibit 1.2 of the Company's Registration Statement on Form S-3 filed June 28, 2011 (File No. 333-175182).
- 10.49 Mutual Termination and Release Agreement, dated November 29, 2012, by and among Presidio Pharmaceuticals, Inc., BioCryst Pharmaceuticals, Inc., S Sub, Inc., 667, L.P., Baker Bros. Investments II, L.P., Baker Brothers Life Sciences, L.P., 14159, L.P., Bay City Capital Fund IV, L.P., Bay City Capital Fund IV Co-Investment Fund, L.P., and Panorama Capital, L.P. Incorporated by reference to Exhibit 10.1 to the Company's Form 8-K filed November 30, 2012.
- 10.50# Agreement, dated as of September 12, 2013, between BioCryst Pharmaceuticals, Inc. and the National Institute of Allergy and Infectious Diseases. Incorporated by reference to Exhibit 10.2 of the Company's Form 10-Q filed November 8, 2013. (Portions omitted pursuant to request for confidential treatment.)
- (10.51)^ Amendment #1 to the Agreement between BioCryst Pharmaceuticals, Inc. and the National Institute of Allergy and Infectious Diseases, dated December 26, 2013. (Portions omitted pursuant to request for confidential treatment.)
- (10.52)^ Amendment #2 to the Agreement between BioCryst Pharmaceuticals, Inc. and the National Institute of Allergy and Infectious Diseases, dated January 24, 2014. (Portions omitted pursuant to request for confidential treatment.)

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- (21) Subsidiaries of the Registrant.
- (23) Consent of Ernst & Young, LLP, Independent Registered Public Accounting Firm.
- (31.1) Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
- (31.2) Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
- (32.1) Certification pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
- (32.2) Certification pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
- (101) Financial statements from the Annual Report on Form 10-K of BioCryst Pharmaceuticals, Inc. for the year ended December 31, 2013, formatted in XBRL: (i) Consolidated Balance Sheets, (ii) Consolidated Statements of Comprehensive Loss, (iii) Consolidated Statements of Cash Flows, (iv) Consolidated Statements of Stockholders' Equity and (v) Notes to Consolidated Financial Statements.

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- # Confidential treatment granted.
 - ^ Confidential treatment requested.
 - & Management contracts.
 - () Filed herewith.

April 27, 2012

Dr. Y.S Babu
4836 Southlake Parkway
Birmingham, AL 35244
babu@biocryst.com

Dear Dr. Babu:

On behalf of BioCryst Pharmaceuticals, Inc., a Delaware corporation (“BioCryst” or the “Company”), we are pleased to extend this employment agreement to you as Senior Vice President Drug Discovery We, along with the other members of the Company’s Board of Directors (the “Board”), and the Company’s management team, continue to be very impressed with you and what you bring to the Company. We believe that with your background, you will continue to make significant contributions to the success of the Company.

This letter agreement (the “Agreement”) will serve to confirm our agreement with respect to the terms and conditions of your employment.

1. Term of Employment. Subject to the terms and conditions of this Agreement, BioCryst hereby employs Dr. Y.S. Babu (the “Employee”), with an effective hire date of January 1, 1988 as Senior Vice President Drug Discovery . Employee shall maintain employment at the Company’s Birmingham, Alabama office. The Employee shall not, during the term of his employment, engage in any other business activity that would interfere with, or prevent him from carrying out, his duties and responsibilities under this Agreement. BioCryst hereby agrees and acknowledges that any compensation which the Employee receives from participation in such allowable activities shall be outside the scope of this Agreement and in addition to any compensation received hereunder. The term of employment of Employee under this Agreement shall commence as of April 27, 2012, and shall terminate on April 27, 2015 unless earlier terminated in accordance with the provisions of paragraph 4 hereof. In the event Employee is retained by the Company as Senior Vice President Drug Discovery past April 27, 2015, the terms of his employment shall continue to be governed by this Agreement unless otherwise provided by the Board.

2. Basic Full-Time Compensation and Benefits.

(a) As basic compensation for services rendered under this Agreement, Employee shall be entitled to receive from BioCryst, a salary of \$27,628.33 per month (\$331,540 per annum) payable in bi-monthly payments for each calendar month during the term of this Agreement, beginning March 1, 2012. This salary will be reviewed annually by the Board of Directors and may be raised at the discretion of the Board.

(b) In addition to the basic compensation set forth in (a) above, Employee shall be eligible to earn a cash bonus, payable as soon as reasonably practicable in the calendar year following each calendar year during the term of this Agreement, based on the Company's achievement of performance related goals proposed by management and approved by the Board for the Company's applicable fiscal year (the "Fiscal Year"). The bonus actually earned, if any, shall be based on a target amount equal to 30% of the base compensation earned by executive during such Fiscal Year (the "Target Amount"), and shall be pro-rated based on the degree to which the performance goals have been achieved, subject to a minimum level of achievement proposed by management and approved by the Board. The Target Amount for the 2012 Fiscal Year shall be prorated based on Employee's base compensation earned during 2012. The Board may, in its discretion, approve a bonus in excess of the Target Amount if the performance goals have been exceeded. Employee must be employed through April 1, of the next succeeding Fiscal Year in order to receive the annual bonus for each Fiscal Year.

(c) In addition to the basic compensation set forth in (a) and (b) above, Employee shall be entitled to receive such other benefits and perquisites provided to other executive officers of BioCryst which benefits may include, without limitation, reasonable vacation (currently 5 weeks), sick leave, medical benefits, life insurance, and participation in profit sharing or retirement plans.

(d) In addition to the compensation set forth in paragraphs 2(a), (b) and (c) above, the Board of Directors of BioCryst may from time to time, in its discretion, also grant such other cash or stock bonuses to the Employee either as an award or as an incentive as it shall deem desirable or appropriate.

3. Performance Based Equity Awards.

In connection with Employee's execution of this Agreement, Employee shall be eligible for equity incentive awards as follows:

(a) As part of the BioCryst Pharmaceuticals Performance Management & Compensation Planning program, you will be eligible for additional long term equity awards (mix of stock options and restricted stock awards). The actual equity award pool will be determined each year, with individual equity awards based on Employee performance assessment and results against individual objectives. All equity awards will reflect the specific guidelines of the program, are subject to approval each year by the Compensation Committee of the Board and subject to the requirements of state and federal laws.

(b) The parties intend for the Option to qualify as "incentive stock options," as that term is defined in Section 422 of the Internal Revenue Code of 1986, as amended ("Section 422") to the fullest extent possible. The parties understand that the portion of the Option, together with the portion of any other incentive stock option granted by BioCryst and its parent and subsidiary corporations, if any, which may become exercisable in any year in excess of an aggregate of \$100,000 fair market value, determined as of the date the Option or such other Option, as the case may be, was granted, and may not be treated as an incentive stock option under Section 422.

(c) The award set forth in paragraph 3(a) above will vest, contingent on Employee's continued provision of services to the Company on each respective vesting date, over a period of 4 years as follows: The Option will initially become exercisable for 25% of the Optioned Shares upon Optionee's completion of twelve (12) months of Service (as defined in the Standard Stock Option Agreement) measured from the Grant Date and will become exercisable for the balance of the Optioned Shares at the rate of 25% of the Optioned Shares upon Optionee's completion of each additional year of Service measured from the first anniversary of the Grant Date for the following three years until fully vested on the fourth anniversary of the grant.

(d) The stock option and restricted stock awards set forth in paragraph 3(a) above shall be granted under and subject to the terms of the BioCryst Pharmaceuticals, Inc. Stock Incentive Plan (the "Stock Incentive Plan"). All awards shall be subject to the terms of specific award agreements between the Employee and the Company, which Employee will be required to execute as a condition of the grants.

4. Termination.

(a) If Employee's employment is terminated as a result of (i) the expiration of the stated term of this Agreement, (ii) the Employee's resignation, (iii) the Employee's death, (iv) by the Company for Cause, or (v) by the Company as a result of Disability, Employee will receive base salary, as well as any accrued but unused vacation (if applicable) and other compensation, earned through the effective termination date, and no additional compensation, except as set forth in Section 4(d) below.

For all purposes under this Agreement, a termination for "Cause" shall mean a determination by the Board that Employee's employment be terminated for any of the following reasons: (i) failure or refusal to comply in any material respect with lawful policies, standards or regulations of Company; (ii) a violation of a federal or state law or regulation applicable to the business of the Company; (iii) conviction or plea of no contest to a felony under the laws of the United States or any State; (iv) fraud or misappropriation of property belonging to the Company or its affiliates; (v) a breach in any material respect of the terms of any confidentiality, invention assignment or proprietary information agreement with the Company or with a former employer, (vi) failure to satisfactorily perform Employee's duties after having received written notice of such failure and at least thirty (30) days to cure such failure, or (vii) misconduct or gross negligence in connection with the performance of Employee's duties.

"Disability" shall mean the inability of Employee to perform his duties hereunder by reason of physical or mental incapacity for ninety (90) days, whether consecutive or not, during any consecutive twelve (12) month period.

(b) If the Company terminates Employee's employment without Cause, it shall provide written notice of termination to Employee, along with any base salary and accrued but unused vacation or other compensation earned through the effective termination date, and, conditioned on Employee (a) signing and not revoking a release of any and all claims, in a form prescribed by the Company, and (b) returning to the Company all of its property and confidential information that is in Employee's possession, Employee will receive the following: (i) continuation of base salary for 1 year beyond the effective termination date, payable in accordance with the regular payroll practices of the Company; and (ii) if Employee elects to continue health insurance coverage under the Consolidated Omnibus Budget Reconciliation Act of 1985, as amended ("COBRA") following termination of employment, the Company shall pay the monthly premium under COBRA until the earlier of (x) 12 months following the effective termination date, or (y) the date upon which Employee commences employment with an entity other than the Company. Employee will notify the Company in writing within 5 days of your receipt of an offer of employment with any entity other than the Company, and will accordingly identify the date upon which you will commence employment in such writing.

(c) If, during Employee's employment with the Company, there is a Change of Control, all equity awards granted to Employee under paragraph 3 and otherwise shall vest in full. In addition, if the Company terminates Employee's employment without Cause or Employee is Constructively Terminated within 6 months of the Change in Control, then Employee will be eligible to receive the benefits provided in paragraph 4(b), under the terms and conditions set forth in that paragraph.

“Change of Control” shall be defined as (i) a merger or consolidation in which the Company is not the surviving entity, except for a transaction the principal purpose of which is to change the State of the Company’s incorporation; (ii) the sale, transfer or other disposition of all or substantially all of the assets of the Company in liquidation or dissolution of the Company; (iii) any reverse merger in which the Company is the surviving entity but in which securities possessing more than fifty percent (50%) of the total combined voting power of the Company’s outstanding securities are transferred to a person or persons different from the persons holding those securities immediately prior to such merger; (iv) any person or related group of persons (other than the Company or a person that directly or indirectly controls, is controlled by, or is under common control with, the Company) directly or indirectly acquires beneficial ownership (within the meaning of Rule 13d-3 of the 1934 Act) of securities possessing more than fifty percent (50%) of the total combined voting power of the Company’s outstanding securities pursuant to a tender or exchange offer made directly to the Company’s stockholders; or (v) a change in the composition of the Board over a period of twenty-four (24) consecutive months or less such that a majority of the Board members (rounded up to the next whole number) ceases, by reason of one or more contested elections for Board membership, to be comprised of individuals who either (A) have been Board members continuously since the beginning of such period or (B) have been elected or nominated for election as Board members during such period by at least two-thirds of the Board members described in clause (A) who were still in office at the time such election or nomination was approved by the Board.

“Constructive Termination” shall mean a resignation of employment within 30 days of the occurrence of any of the following events which occurs within 6 months following a Change of Control: (i) a material reduction in Employee’s responsibilities; (ii) a material reduction in Employee’s base salary, unless such reduction is comparable in percentage to, and is part of, a reduction in the base salary of all executive officers of the Company; or (iii) a relocation of Employee’s principal office to a location more than 50 miles from the location of Employee’s principal office immediately preceding a Change of Control.

(d) If (i) Employee remains an employee of the Company after the expiration of the three year term of this Agreement; and (ii) within 6 months thereafter, Employee resigns as a result of a material and adverse change in the Company’s business, then Employee shall be entitled to receive the severance benefits on the terms and conditions specified in paragraph 4(b) above.

(e) In the event (i) any payments described in paragraphs 4(b), (c) or (d) above would be “deferred compensation” subject to Section 409A of the Internal Revenue Code of 1986, as amended (the “Code”); and (ii) Employee is a “specified employee” (as defined in Code Section 409A(2)(B)(i)), such payments shall, to the extent required by Code Section 409A, be delayed for the minimum period and in the minimum manner necessary to avoid the imposition of the tax required by Code Section 409A.

5. Non-Competition; Proprietary Information and Inventions.

(a) Proprietary Information and Inventions Agreement. As a condition precedent to the employment of Employee by the Company, Employee shall execute the Company’s standard Proprietary Information and Inventions Agreement, attached hereto as Exhibit A.

(b) Non-Competition Agreement. The Employee agrees that for one (1) year following the termination of this Agreement by reason of the voluntary termination by the Employee, without cause on the part of BioCryst, the Employee shall not become the Vice President Drug Discovery or become a key executive of another for-profit business enterprise whose activities are at such time directly competitive with BioCryst.

(c) Equitable Remedies. Employee acknowledges and recognizes that a violation of this paragraph by Employee may cause irreparable and substantial damage and harm to BioCryst or its affiliates, could constitute a failure of consideration, and that money damages will not provide a full remedy for BioCryst for such violations. Employee agrees that in the event of his breach of this paragraph, BioCryst will be entitled, if it so elects, to institute and prosecute proceedings at law or in equity to obtain damages with respect to such breach, to enforce the specific performance of this paragraph by Employee, and to enjoin Employee from engaging in any activity in violation hereof.

6. Miscellaneous.

(a) Entire Agreement. This Agreement, including the exhibits hereto, constitutes the entire agreement between the parties relating to the employment of the Employee by BioCryst and there are no terms relating to such employment other than those contained in this Agreement. No modification or variation hereof shall be deemed valid unless in writing and signed by the parties hereto. No waiver by either party of any provision or condition of this Agreement shall be deemed a waiver of similar or dissimilar provisions or conditions at any time.

(b) Assignability. This Agreement may not be assigned without prior written consent of the parties hereto. To the extent allowable pursuant to this Agreement, this

Agreement shall be binding upon and shall inure to the benefit of each of the parties hereto and their respective executors, administrators, personal representatives, heirs, successors and assigns.

(c) Notices. Any notice or other communication given or rendered hereunder by any party hereto shall be in writing and delivered personally or sent by registered or certified mail, postage prepaid, at the respective addresses of the parties hereto as set forth below.

(d) Captions. The section headings contained herein are inserted only as a matter of convenience and reference and in no way define, limit or describe the scope of this Agreement or the intent of any provision hereof.

(e) Taxes. All amounts to be paid to Employee hereunder are in the nature of compensation for Employee's employment by BioCryst, and shall be subject to withholding, income, occupation and payroll taxes and other charges applicable to such compensation.

(f) Governing Law. This Agreement is made and shall be governed by and construed in accordance with the laws of the State of Alabama without respect to its conflicts of law principles.

(g) Date. This Agreement is dated as of April 27, 2012.

If the foregoing correctly sets forth our understanding, please signify your acceptance of such terms by executing this Agreement, thereby signifying your assent, as indicated below.

Yours very truly,

BIOCRYST PHARMACEUTICALS, INC.

By: /s/ Jon Stonehouse

Jon Stonehouse
Chief Executive Officer

Address:

4505 Emperor Blvd., Suite 200
Durham, NC 27703

AMENDED, AGREED AND ACCEPTED, as of this 18th day of November, 2013.

/s/ Y.S. Babu

Y.S. Babu

Address:

4836 Southlake Parkway
Birmingham, AL 35244

Exhibit A
(Proprietary Information and Inventions Agreement)

EMPLOYEE'S PROPRIETARY INFORMATION AND INVENTIONS
AGREEMENT

I, Dr. Y.S. Babu, recognize that BioCryst Pharmaceuticals, Inc., a Delaware corporation (hereinafter the "Company", is engaged in a continuous program of research, development, and product; on respecting its business, present and future, including fields generally related to its business.

I understand that:

A. As part of my employment by the Company I will faithfully and diligently serve and endeavor to further and safeguard the interests of the Company and I recognize that I am expected to make new contributions and inventions of value to the Company;

B. My employment creates a relationship of confidence and trust between me and the Company with respect to any information:

1. Applicable to the business of the Company: or

2. Applicable to the business of any client or customer of the Company which may be made known to me by the Company or by any client or customer of Company or learned by me during the period of my employment.

C. The Company possesses and will continue to possess information that has been created, discovered, developed, or otherwise become known to the Company (including without limitation information created, discovered, developed, or made known by me during the period of or arising out of my employment by the Company) and/or in which property rights have been assigned or otherwise conveyed to the Company, which information has commercial value in the business in which the Company is or may be engaged. All of the aforementioned information is hereinafter called "Proprietary Information." By way of illustration, but not limitation Proprietary Information includes trade secrets, processes, formulas, data and know-how, improvements, inventions, techniques, marketing plans, strategies, forecasts, and customer lists.

In consideration of my employment or continued employment, as the case may be, by the Company and the compensation received by me from the Company from time to time. I hereby agree as follows:

1. All Proprietary Information shall be the sole property of the Company and its assigns, and the Company and its assigns shall be the sole owner of all patents and other rights, title and interest in connection therewith. I hereby assign to the Company any and all rights I may have or acquire in such Proprietary Information and/or patents. At all times, both during my employment by the Company and after its termination, I will keep in confidence and trust all Proprietary Information, and I will not use or disclose any Proprietary Information or anything relating to it without the prior written consent of the Company, except as may be necessary in the ordinary course of performing my duties as an employee of the Company.

2. I agree that, during the period of my employment by the Company, I will not, without the Company's express prior written consent, engage in any employment or consulting other than for the Company. In the event of the termination of my employment by me or by the Company for any reason, I will promptly deliver to the Company all documents and data of any nature pertaining to my work with the Company and I will not take with me any documents or data of any description or any reproduction of any description containing or pertaining to any Proprietary Information.

3. I will promptly and fully disclose to the Company, or any persons designated by it, all improvements, inventions, formulas, processes, techniques, know-how, and data, whether or not patentable, copyrightable, or otherwise protectible as property, made or conceived or reduced to practice or learned by me, either alone or jointly with others, during the period of my employment by the Company which are related to or useful in the business of the Company, or result from tasks assigned me by the Company or result from use of premises owned, leased, or contracted for by the Company (all said improvements, inventions, formulas, processes, techniques, know-how, and data shall be collectively hereinafter called "Inventions"). I agree to keep complete, accurate, and authentic accounts, notes, data, and records of all Inventions in the manner and form requested by the Company, which accounts, notes, data, and records shall be and remain the sole property of the Company. I agree to surrender the same promptly to the Company upon its request or, in the absence of such a request, upon the termination of my employment by the Company.

4. I agree that all Inventions are and shall be the sole property of the Company and its assigns, and that the Company and its assigns shall be the sole owner of all patents and other rights in connection therewith. I hereby assign to the Company any and all rights I may have or acquire in or to such Inventions and patents. I further agree as to all such Inventions to assist the Company in every proper way (but at the Company's expense) to obtain and from time to time enforce patents, including amendments, extensions, and continuations of said patents on said Inventions in any and all countries, and to that end I will execute all documents for use in applying for and for obtaining such patents, amendments, extensions, and continuations and enforcing same, as the Company may desire, together with any assignments thereof to the Company or persons designated by it. My obligation to assist the Company in obtaining and enforcing patents, amendments, extensions, and continuations for such Inventions in any and all countries shall continue beyond the termination of my employment, but the Company shall compensate me at a reasonable rate after such termination for time actually spent by me at the Company's request on such assistance.

5. As a matter of record I attach hereto a complete list of all Inventions or improvements relevant to the subject matter of my employment by the Company which have been conceived, made, or reduced to practice by me, alone or jointly with others, prior to my engagement by the Company which I desire to remove from the operation of this Agreement. I covenant that such list is complete. If no such list is attached to this Agreement, I represent that I have no such Inventions and improvements at the time of signing this Agreement.

6. I represent that my performance of all of the terms of this Agreement and as an employee of the Company does not and will not breach any agreement to keep in confidence Proprietary Information acquired by me in confidence or in trust prior to my employment by the Company. I have not entered into, and I agree that I will not enter into, any agreement either written or oral, in conflict herewith.

7. I understand that, as part of the consideration of the offer of employment extended to me by the Company or of my continued employment by the Company, as the case may be, I will not bring, have not brought, with me to the Company and I will not use, have not used, in the performance of my responsibilities at the Company, materials or documents of a former employer, unless I have obtained written authorization from the former employer for their possession and use. Accordingly, this is to advise the Company that the only materials that I will bring to the Company or use in my employment are identified on the attached sheet (Exhibit A) and, as to each such item, I represent that I have obtained, prior to the effective date of my employment with the Company, written authorization for their possession and use in my employment with the Company. I also understand that, in my employment with the Company, I am not to breach any obligation of confidentiality that I have to former employers, and I agree that I shall fulfill all such obligations during my employment with the Company.

8. This Agreement shall be effective as of the first day of my employment by the Company, namely: January 1, 1988. I understand and agree that this Agreement is not a contract of employment and that my employment by the Company is, for all purposes, "at will."

9. This Agreement shall be binding upon me, my heirs, executors, assigns, administrators, and other legal representatives and shall inure to the benefit of the Company, its successors and assigns.

DATED: _____

Employee: _____

ACCEPTED AND AGREED TO:

BIOCRYST PHARMACEUTICALS, INC.

BY: _____

AS ITS: Vice President of Human Resources

Dated: _____

BioCryst Pharmaceuticals, Inc.
4505 Emperor Blvd., Suite 200
Durham, NC 27703

Dear Sir:

I _____ propose to bring to my BioCryst employment the following tangible materials and previously unpublished documents, which materials and documents may be used in my BioCryst employment:

No materials

See below

Additional sheets attached

The signature below by a representative of my current or former employer confirms that my continued possession and use of these materials is authorized.

AUTHORIZATION:

Signature

Title: _____

Employer

Employee

August 2, 2013

Mrs. Alane Barnes
1929 Brassfield Rd.
Raleigh, NC 27614
abarnes@biocryst.com

Dear Mrs. Barnes:

On behalf of BioCryst Pharmaceuticals, Inc., a Delaware corporation (“BioCryst” or the “Company”), we are pleased to extend this employment agreement to you as Vice President & General Counsel. We, along with the other members of the Company’s Board of Directors (the “Board”), and the Company’s management team, continue to be very impressed with you and what you bring to the Company. We believe that with your background, you will continue to make significant contributions to the success of the Company.

This letter agreement (the “Agreement”) will serve to confirm our agreement with respect to the terms and conditions of your employment.

1. Term of Employment. Subject to the terms and conditions of this Agreement, BioCryst hereby employs Alane Barnes (the “Employee”), with an effective hire date of September 18, 2006 as Vice President & General Counsel . Employee shall maintain employment at the Company’s Durham, North Carolina . The Employee shall not, during the term of his employment, engage in any other business activity that would interfere with, or prevent him from carrying out, his duties and responsibilities under this Agreement. BioCryst hereby agrees and acknowledges that any compensation which the Employee receives from participation in such allowable activities shall be outside the scope of this Agreement and in addition to any compensation received hereunder. The term of employment of Employee under this Agreement shall commence as of July 29, 2013, and shall terminate on July 29 , 2016 unless earlier terminated in accordance with the provisions of paragraph 4 hereof. In the event Employee is retained by the Company as Vice President & General Counsel past July 29 , 2016, the terms of his employment shall continue to be governed by this Agreement unless otherwise provided by the Board.

2. Basic Full-Time Compensation and Benefits.

(a) As basic compensation for services rendered under this Agreement, Employee shall be entitled to receive from BioCryst, a salary of \$19,309.08 per month (\$231,709 per

annum) payable in bi-monthly payments for each calendar month during the term of this Agreement, beginning July 29 , 2013. This salary will be reviewed annually by the Board of Directors and may be raised at the discretion of the Board.

(b) In addition to the basic compensation set forth in (a) above, Employee shall be eligible to earn a cash bonus, payable as soon as reasonably practicable in the calendar year following each calendar year during the term of this Agreement, based on the Company's achievement of performance related goals proposed by management and approved by the Board for the Company's applicable fiscal year (the "Fiscal Year"). The bonus actually earned, if any, shall be based on a target amount equal to 30% of the base compensation earned by executive during such Fiscal Year (the "Target Amount"), and shall be pro-rated based on the degree to which the performance goals have been achieved, subject to a minimum level of achievement proposed by management and approved by the Board. The Target Amount for the 2013 Fiscal Year shall be prorated based on Employee's base compensation earned during 2013. The Board may, in its discretion, approve a bonus in excess of the Target Amount if the performance goals have been exceeded. Employee must be employed through April 1, of the next succeeding Fiscal Year in order to receive the annual bonus for each Fiscal Year.

(c) In addition to the basic compensation set forth in (a) and (b) above, Employee shall be entitled to receive such other benefits and perquisites provided to other executive officers of BioCryst which benefits may include, without limitation, reasonable vacation (currently 4 weeks), sick leave, medical benefits, life insurance, and participation in profit sharing or retirement plans.

(d) In addition to the compensation set forth in paragraphs 2(a), (b) and (c) above, the Board of Directors of BioCryst may from time to time, in its discretion, also grant such other cash or stock bonuses to the Employee either as an award or as an incentive as it shall deem desirable or appropriate.

3. Performance Based Equity Awards.

In connection with Employee's execution of this Agreement, Employee shall be eligible for equity incentive awards as follows:

(a) As part of the BioCryst Pharmaceuticals Performance Management & Compensation Planning program, you will be eligible for additional long term equity awards (mix of stock options and restricted stock awards). The actual equity award pool will be determined each year, with individual equity awards based on Employee performance assessment and results against individual objectives. All equity awards will reflect the specific guidelines of the program, are subject to approval each year by the Compensation Committee of the Board and subject to the requirements of state and federal laws.

(b) The parties intend for the Option to qualify as “incentive stock options,” as that term is defined in Section 422 of the Internal Revenue Code of 1986, as amended (“Section 422”) to the fullest extent possible. The parties understand that the portion of the Option, together with the portion of any other incentive stock option granted by BioCryst and its parent and subsidiary corporations, if any, which may become exercisable in any year in excess of an aggregate of \$100,000 fair market value, determined as of the date the Option or such other Option, as the case may be, was granted, and may not be treated as an incentive stock option under Section 422.

(c) The award set forth in paragraph 3(a) above will vest, contingent on Employee’s continued provision of services to the Company on each respective vesting date, over a period of 4 years as follows: The Option will initially become exercisable for 25% of the Optioned Shares upon Optionee’s completion of twelve (12) months of Service (as defined in the Standard Stock Option Agreement) measured from the Grant Date and will become exercisable for the balance of the Optioned Shares at the rate of 25% of the Optioned Shares upon Optionee’s completion of each additional year of Service measured from the first anniversary of the Grant Date for the following three years until fully vested on the fourth anniversary of the grant.

(d) The stock option and restricted stock awards set forth in paragraph 3(a) above shall be granted under and subject to the terms of the BioCryst Pharmaceuticals, Inc. Stock Incentive Plan (the “Stock Incentive Plan”). All awards shall be subject to the terms of specific award agreements between the Employee and the Company, which Employee will be required to execute as a condition of the grants.

4. Termination.

(a) If Employee’s employment is terminated as a result of (i) the expiration of the stated term of this Agreement, (ii) the Employee’s resignation, (iii) the Employee’s death, (iv) by the Company for Cause, or (v) by the Company as a result of Disability, Employee will receive base salary, as well as any accrued but unused vacation (if applicable) and other compensation, earned through the effective termination date, and no additional compensation, except as set forth in Section 4(d) below.

For all purposes under this Agreement, a termination for “Cause” shall mean a determination by the Board that Employee’s employment be terminated for any of the following reasons: (i) failure or refusal to comply in any material respect with lawful policies,

standards or regulations of Company; (ii) a violation of a federal or state law or regulation applicable to the business of the Company; (iii) conviction or plea of no contest to a felony under the laws of the United States or any State; (iv) fraud or misappropriation of property belonging to the Company or its affiliates; (v) a breach in any material respect of the terms of any confidentiality, invention assignment or proprietary information agreement with the Company or with a former employer, (vi) failure to satisfactorily perform Employee's duties after having received written notice of such failure and at least thirty (30) days to cure such failure, or (vii) misconduct or gross negligence in connection with the performance of Employee's duties.

"Disability" shall mean the inability of Employee to perform his duties hereunder by reason of physical or mental incapacity for ninety (90) days, whether consecutive or not, during any consecutive twelve (12) month period.

(b) If the Company terminates Employee's employment without Cause, it shall provide written notice of termination to Employee, along with any base salary and accrued but unused vacation or other compensation earned through the effective termination date, and, conditioned on Employee (a) signing and not revoking a release of any and all claims, in a form prescribed by the Company, and (b) returning to the Company all of its property and confidential information that is in Employee's possession, Employee will receive the following: (i) continuation of base salary for 1 year beyond the effective termination date, payable in accordance with the regular payroll practices of the Company; and (ii) if Employee elects to continue health insurance coverage under the Consolidated Omnibus Budget Reconciliation Act of 1985, as amended ("COBRA") following termination of employment, the Company shall pay the monthly premium under COBRA until the earlier of (x) 12 months following the effective termination date, or (y) the date upon which Employee commences employment with an entity other than the Company. Employee will notify the Company in writing within 5 days of your receipt of an offer of employment with any entity other than the Company, and will accordingly identify the date upon which you will commence employment in such writing.

(c) If, during Employee's employment with the Company, there is a Change of Control, all equity awards granted to Employee under paragraph 3 and otherwise shall vest in full. In addition, if the Company terminates Employee's employment without Cause or Employee is Constructively Terminated within 6 months of the Change in Control, then Employee will be eligible to receive the benefits provided in paragraph 4(b), under the terms and conditions set forth in that paragraph.

"Change of Control" shall be defined as (i) a merger or consolidation in which the Company is not the surviving entity, except for a transaction the principal purpose of which is

to change the State of the Company's incorporation; (ii) the sale, transfer or other disposition of all or substantially all of the assets of the Company in liquidation or dissolution of the Company; (iii) any reverse merger in which the Company is the surviving entity but in which securities possessing more than fifty percent (50%) of the total combined voting power of the Company's outstanding securities are transferred to a person or persons different from the persons holding those securities immediately prior to such merger; (iv) any person or related group of persons (other than the Company or a person that directly or indirectly controls, is controlled by, or is under common control with, the Company) directly or indirectly acquires beneficial ownership (within the meaning of Rule 13d-3 of the 1934 Act) of securities possessing more than fifty percent (50%) of the total combined voting power of the Company's outstanding securities pursuant to a tender or exchange offer made directly to the Company's stockholders; or (v) a change in the composition of the Board over a period of twenty-four (24) consecutive months or less such that a majority of the Board members (rounded up to the next whole number) ceases, by reason of one or more contested elections for Board membership, to be comprised of individuals who either (A) have been Board members continuously since the beginning of such period or (B) have been elected or nominated for election as Board members during such period by at least two-thirds of the Board members described in clause (A) who were still in office at the time such election or nomination was approved by the Board.

"Constructive Termination" shall mean a resignation of employment within 30 days of the occurrence of any of the following events which occurs within 6 months following a Change of Control: (i) a material reduction in Employee's responsibilities; (ii) a material reduction in Employee's base salary, unless such reduction is comparable in percentage to, and is part of, a reduction in the base salary of all executive officers of the Company; or (iii) a relocation of Employee's principal office to a location more than 50 miles from the location of Employee's principal office immediately preceding a Change of Control.

(d) If (i) Employee remains an employee of the Company after the expiration of the three year term of this Agreement; and (ii) within 6 months thereafter, Employee resigns as a result of a material and adverse change in the Company's business, then Employee shall be entitled to receive the severance benefits on the terms and conditions specified in paragraph 4(b) above.

(e) In the event (i) any payments described in paragraphs 4(b), (c) or (d) above would be "deferred compensation" subject to Section 409A of the Internal Revenue Code of 1986, as amended (the "Code"); and (ii) Employee is a "specified employee" (as defined in Code Section 409A(2)(B)(i)), such payments shall, to the extent required by Code Section 409A, be delayed for the minimum period and in the minimum manner necessary to avoid the imposition of the tax required by Code Section 409A.

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(a) Proprietary Information and Inventions Agreement. As a condition precedent to the employment of Employee by the Company, Employee shall execute the Company's standard Proprietary Information and Inventions Agreement, attached hereto as Exhibit A.

(b) Non-Competition Agreement. The Employee agrees that for one (1) year following the termination of this Agreement by reason of the voluntary termination by the Employee, without cause on the part of BioCryst, the Employee shall not become the Vice President Drug Discovery or become a key executive of another for-profit business enterprise whose activities are at such time directly competitive with BioCryst.

(c) Equitable Remedies. Employee acknowledges and recognizes that a violation of this paragraph by Employee may cause irreparable and substantial damage and harm to BioCryst or its affiliates, could constitute a failure of consideration, and that money damages will not provide a full remedy for BioCryst for such violations. Employee agrees that in the event of his breach of this paragraph, BioCryst will be entitled, if it so elects, to institute and prosecute proceedings at law or in equity to obtain damages with respect to such breach, to enforce the specific performance of this paragraph by Employee, and to enjoin Employee from engaging in any activity in violation hereof.

6. Miscellaneous.

(a) Entire Agreement. This Agreement, including the exhibits hereto, constitutes the entire agreement between the parties relating to the employment of the Employee by BioCryst and there are no terms relating to such employment other than those contained in this Agreement. No modification or variation hereof shall be deemed valid unless in writing and signed by the parties hereto. No waiver by either party of any provision or condition of this Agreement shall be deemed a waiver of similar or dissimilar provisions or conditions at any time.

(b) Assignability. This Agreement may not be assigned without prior written consent of the parties hereto. To the extent allowable pursuant to this Agreement, this Agreement shall be binding upon and shall inure to the benefit of each of the parties hereto and their respective executors, administrators, personal representatives, heirs, successors and assigns.

(c) Notices. Any notice or other communication given or rendered hereunder by any party hereto shall be in writing and delivered personally or sent by registered or certified mail, postage prepaid, at the respective addresses of the parties hereto as set forth below.

(d) Captions. The section headings contained herein are inserted only as a matter of convenience and reference and in no way define, limit or describe the scope of this Agreement or the intent of any provision hereof.

(e) Taxes. All amounts to be paid to Employee hereunder are in the nature of compensation for Employee's employment by BioCryst, and shall be subject to withholding, income, occupation and payroll taxes and other charges applicable to such compensation.

(f) Governing Law. This Agreement is made and shall be governed by and construed in accordance with the laws of the State of Alabama without respect to its conflicts of law principles.

(g) Date. This Agreement is dated as of July 29, 2013.

Mrs. Alane Barnes
August 1, 2013
Page 8

If the foregoing correctly sets forth our understanding, please signify your acceptance of such terms by executing this Agreement, thereby signifying your assent, as indicated below.

Yours very truly,

BIOCRYST PHARMACEUTICALS, INC.

By: /s/ Jon Stonehouse

Jon Stonehouse
Chief Executive Officer

Address:
4505 Emperor Blvd., Suite 200
Durham, NC 27703

Cc: Robert C. Stoner, Vice President Human Resources

AMENDED, AGREED AND ACCEPTED, as of this 18th day of November, 2013.

/s/ Alane Barnes

Alane Barnes

Address:

1929 Brassfield Rd.
Raleigh, NC 27614

Exhibit A
(Proprietary Information and Inventions Agreement)

EMPLOYEE'S PROPRIETARY INFORMATION AND INVENTIONS
AGREEMENT

I, Alane Barnes, recognize that BioCryst Pharmaceuticals, Inc., a Delaware corporation (hereinafter the "Company", is engaged in a continuous program of research, development, and product; on respecting its business, present and future, including fields generally related to its business.

I understand that:

A. As part of my employment by the Company I will faithfully and diligently serve and endeavor to further and safeguard the interests of the Company and I recognize that I am expected to make new contributions and inventions of value to the Company;

B. My employment creates a relationship of confidence and trust between me and the Company with respect to any information:

1. Applicable to the business of the Company: or

2. Applicable to the business of any client or customer of the Company which may be made known to me by the Company or by any client or customer of Company or learned by me during the period of my employment.

C. The Company possesses and will continue to possess information that has been created, discovered, developed, or otherwise become known to the Company (including without limitation information created, discovered, developed, or made known by me during the period of or arising out of my employment by the Company) and/or in which property rights have been assigned or otherwise conveyed to the Company, which information has commercial value in the business in which the Company is or may be engaged. All of the aforementioned information is hereinafter called "Proprietary Information." By way of illustration, but not limitation Proprietary Information includes trade secrets, processes, formulas, data and know-how, improvements, inventions, techniques, marketing plans, strategies, forecasts, and customer lists.

In consideration of my employment or continued employment, as the case may be, by the Company and the compensation received by me from the Company from time to time. I hereby agree as follows:

1. All Proprietary Information shall be the sole property of the Company and its assigns, and the Company and its assigns shall be the sole owner of all patents and other rights, title and interest in connection therewith. I hereby assign to the Company any and all rights I may have or acquire in such Proprietary Information and/or patents. At all times, both during my employment by the Company and after its termination, I will keep in confidence and trust all Proprietary Information, and I will not use or disclose any Proprietary Information or anything relating to it without the prior written consent of the Company, except as may be necessary in the ordinary course of performing my duties as an employee of the Company.

2. I agree that, during the period of my employment by the Company, I will not, without the Company's express prior written consent, engage in any employment or consulting other than for the Company. In the event of the termination of my employment by me or by the Company for any reason, I will promptly deliver to the Company all documents and data of any nature pertaining to my work with the Company and I will not take with me any documents or data of any description or any reproduction of any description containing or pertaining to any Proprietary Information.

3. I will promptly and fully disclose to the Company, or any persons designated by it, all improvements, inventions, formulas, processes, techniques, know-how, and data, whether or not patentable, copyrightable, or otherwise protectible as property, made or conceived or reduced to practice or learned by me, either alone or jointly with others, during the period of my employment by the Company which are related to or useful in the business of the Company, or result from tasks assigned me by the Company or result from use of premises owned, leased, or contracted for by the Company (all said improvements, inventions, formulas, processes, techniques, know-how, and data shall be collectively hereinafter called "Inventions"). I agree to keep complete, accurate, and authentic accounts, notes, data, and records of all Inventions in the manner and form requested by the Company, which accounts, notes, data, and records shall be and remain the sole property of the Company. I agree to surrender the same promptly to the Company upon its request or, in the absence of such a request, upon the termination of my employment by the Company.

4. I agree that all Inventions are and shall be the sole property of the Company and its assigns, and that the Company and its assigns shall be the sole owner of all patents and other rights in connection therewith. I hereby assign to the Company any and all rights I may have or acquire in or to such Inventions and patents. I further agree as to all such Inventions to assist the Company in every proper way (but at the Company's expense) to obtain and from time to time enforce patents, including amendments, extensions, and continuations of said patents on said Inventions in any and all countries, and to that end I will execute all documents for use in applying for and for obtaining such patents, amendments, extensions, and continuations and enforcing same, as the Company may desire, together with any assignments thereof to the Company or persons designated by it. My obligation to assist the Company in obtaining and enforcing patents, amendments, extensions, and continuations for such Inventions in any and all countries shall continue beyond the termination of my employment, but the Company shall compensate me at a reasonable rate after such termination for time actually spent by me at the Company's request on such assistance.

5. As a matter of record I attach hereto a complete list of all Inventions or improvements relevant to the subject matter of my employment by the Company which have been conceived, made, or reduced to practice by me, alone or jointly with others, prior to my engagement by the Company which I desire to remove from the operation of this Agreement. I covenant that such list is complete. If no such list is attached to this Agreement, I represent that I have no such Inventions and improvements at the time of signing this Agreement.

6. I represent that my performance of all of the terms of this Agreement and as an employee of the Company does not and will not breach any agreement to keep in confidence Proprietary Information acquired by me in confidence or in trust prior to my employment by the Company. I have not entered into, and I agree that I will not enter into, any agreement either written or oral, in conflict herewith.

7. I understand that, as part of the consideration of the offer of employment extended to me by the Company or of my continued employment by the Company, as the case may be, I will not bring, have not brought, with me to the Company and I will not use, have not used, in the performance of my responsibilities at the Company, materials or documents of a former employer, unless I have obtained written authorization from the former employer for their possession and use. Accordingly, this is to advise the Company that the only materials that I will bring to the Company or use in my employment are identified on the attached sheet (Exhibit A) and, as to each such item, I represent that I have obtained, prior to the effective date of my employment with the Company, written authorization for their possession and use in my employment with the Company. I also understand that, in my employment with the Company, I am not to breach any obligation of confidentiality that I have to former employers, and I agree that I shall fulfill all such obligations during my employment with the Company.

8. This Agreement shall be effective as of the first day of my employment by the Company, namely: September 8, 2006. I understand and agree that this Agreement is not a contract of employment and that my employment by the Company is, for all purposes, "at will."

9. This Agreement shall be binding upon me, my heirs, executors, assigns, administrators, and other legal representatives and shall inure to the benefit of the Company, its successors and assigns.

DATED: _____

Employee: _____

ACCEPTED AND AGREED TO:

BIOCRYST PHARMACEUTICALS, INC.

BY: _____

AS ITS: Vice President of Human Resources

Dated: _____

BioCryst Pharmaceuticals, Inc.
4505 Emperor Blvd., Suite 200
Durham, NC 27703

Dear Sir:

I _____ propose to bring to my BioCryst employment the following tangible materials and previously unpublished documents, which materials and documents may be used in my BioCryst employment:

No materials

See below

Additional sheets attached

The signature below by a representative of my current or former employer confirms that my continued possession and use of these materials is authorized.

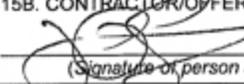
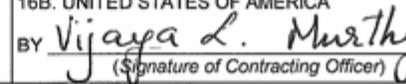
AUTHORIZATION:

Signature

Title: _____

Employer

Employee

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 2	
2. MODIFICATION NO: 013	3. EFFECTIVE DATE See block 16C	4. REQUISITION/PURC N/A		5. PROJECT NO. (If applicable) N/A	
6. ISSUED BY Biomedical Advanced Research and Development Authority U.S. Department of Health and Human Services 330 Independence Avenue, SW Room G640 Washington, DC 20201		7. ADMINISTERED BY (If other than Item 6) FEB 15 2012 2:36			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) BioCryst Pharmaceuticals, Inc. 4505 Emperor Boulevard, Suite 200 Durham, NC 27703 DUNS 61-819-4609 TIN 62-1413174			9A. AMENDMENT OF SOLICITATION NO.		
			9B. DATED (SEE ITEM 11)		
			10A. MODIFICATION OF CONTRACT/ ORDER X HHSO100200700032C		
			10B. DATED (SEE ITEM 13) 01-03-07		
CODE	FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<p>~ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ~ is extended, ~ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment, you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.</p>					
12. ACCOUNTING AND APPROPRIATION DATA (If required)					
SOCC:	DOC#	TIN#	LOC#	CAN#	
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS; IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14. THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
14. THIS CHANGE ORDER IS ISSUED PURSUANT TO:					
X	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: FAR 52.243-2 (Aug '87) Changes – Cost Reimbursement, Alternate V (Apr. 1984)				
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).				
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
	D. OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor [] is not, [X] is required to sign this document and return 2 copies to the issuing office.					
14. DESCRIPTION OF MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)					
PURPOSE: The purpose of this modification is to:					
1. Incorporate Advanced Understandings to transfer 240 vials of peramivir to BioCryst					
2. Add and exercise Optional CLIN 0009 to include 84-month stability testing.					
The total contract amount remains unchanged at \$234,852,147.					
The contract completion date remains unchanged at December 31, 2013.					
Except as provided herein, all terms and conditions referenced in item 9A or 10A, remain in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print) Jon P. Stonehouse President & CEO			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) VIJAYA L. MURTHY, CONTRACTING OFFICER		
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)		15C. DATE SIGNED 2-15-12	16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)		16C. DATE SIGNED 2/15/12

NSN 7540-01-152-8070

OMB No. 0990-0115

STANDARD FORM 30 (REV. 10-83)

HHSO100200700032C

- ARTICLE B.6 ADVANCED UNDERSTANDING is modified to add the following:

“ARTICLE B.6.5.

The government will provide to the contractor 240 vials (16 treatment courses at 15 vials per treatment course) of peramivir from lot C0307 that is currently stored at the Supply Service Center at Perry Point, MD. This transfer will be initiated by BioCryst in the form of a written request to the Contracting Officer and will be coordinated with the Project Officer.”

- This modification adds to the contract and exercises Optional CLIN 0009.

The funding for Optional CLIN 0009 is included in CLIN 0004-Contractor-defined Milestones. The testing will be performed in conformance with FDA requirements beyond the period of performance of this contract.

Except as otherwise provided herein, this modification caps the period of performance for Optional CLIN 0009 at the expiration date of this contract, December 31, 2013. A formal extension to cover the 84-month period must be requested by BioCryst at least 60 days before December 31, 2013, to extend the period of performance.

CLIN	Supplies/Services	Quantity/Unit	Price
Optional CLIN 0009	The Contractor shall perform additional stability extension services for Peramivir IV supplies currently being held at the Supply Service Center at Perry Point, MD, extending the shelf life to 84 months in conformance with FDA requirements.	84 month period of performance	\$119,311 (FFP)

- All other terms and conditions of the contract remain unchanged.

Pursuant to 17 CFR 240.24b-2, confidential information has been omitted in places marked "****" and has been filed separately with the Securities and Exchange Commission pursuant to a Confidential Treatment Application with the Commission.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. One (1)		3. EFFECTIVE DATE See block #16C		4. REQUISITION/PURCHASE REQ. NO. 3228551		5. PROJECT NO. (if applicable)	
6. ISSUED BY National Institutes of Health National Institute of Allergy and Infectious Diseases DEA, Office of Acquisitions Room 3214, MSC 7612 6700-B Rockledge Drive Bethesda, MD 20892-7612				7. ADMINISTERED BY (If other than Item 6) MID RCB-A		CODE: N/A	
K. NAME AND ADDRESS OF CONTRACTOR (No. Street, county, State and ZIP Code) BIOCRYST PHARMACEUTICALS, INC. 4505 EMPEROR BLVD SUITE 200 DURHAM, NC 27703				(4)		9A. AMENDMENT OF SOLICITATION NO.	
						9B. DATED (SEE ITEM 11)	
				X		10A. MODIFICATION OF CONTRACT/ORDER NO. HHSN272201300017C	
						10B. DATED (SEE ITEM 11) September 16, 2013	
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning one (1) copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and data specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
SOC 25.55 Cnn 14-8470038 \$2,502,146

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation dist, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X D. OTHER Specify type of modification and authority FAR 52.217-7

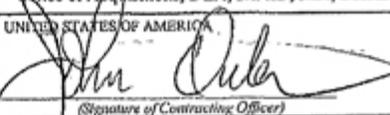
E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

PURPOSE: To execute option 3.

The completion date of the contract is not changed to September 15, 2017.
Total cost is changed to \$7,502,146

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Jon P. Stonehouse CEO		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) John Outen, Contracting Officer Office of Acquisitions, DEA, NIAID, NIH, DHHS	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED 12/26/13	16B. UNITED STATES OF AMERICA BY 	16C. DATE SIGNED 12/24/2013

SPECIAL PROVISIONS

**Contract No. HHSN272201300017C
Modification No. 1**

Beginning with the effective date of this modification. ARTICLE B.2. ESTIMATED COST – OPTION AND ARTICLE G.3 INVOICE SUBMISSION /CONTRACT FINANCING REQUEST IS REVISED

ARTICLE B.2. ESTIMATED COST – OPTION is revised to incorporate changes and add paragraph e with the Option table below:

- a. The estimated cost of this contract is \$ *** with the execution of Option 3.
- b. The fixed fee for this contract is \$*** for the Base and all executed options. The fixed fee shall be paid in installments based on the percentage of completion of work, as determined by the Contracting Officer. Payment shall be subject to the withholding provisions of the clauses ALLOWABLE COST AND PAYMENT and FIXED FEE referenced in the General Clause Listing in Part II, ARTICLE I.1. of this contract.
- c. The total estimated amount of the contract, represented by the sum of the estimated cost plus the fixed fee for the Base Period and all options is \$7,502,146

e. Payments from the base and executed options will be made from the following PRISM/NBS Line Item Numbers as follows:

PRISM/NBS Line Item No.	Option/Increment Description	PRISM/NBS Line Item Period of Performance	Funded Amount
1 (BASE)	Base Period: Non-GMP manufacture of drug substance, drug disposition, genetic toxicity and in vitro and small animal efficacy studies	09/16/2013 - 09/15/2014	\$ ***
2 (Option 1)	Option 1-Manufacture of drug substance and drug product in compliance with cGMP guidance - GMP	09/16/2013 - 09/27/2014	\$ ***
3 (Option 2)	Option 2-DP and Development with DS Stability testing	09/16/2013 - 09/15/2017	\$ ***
4 (Option 3 MOD 1)	Option 3-IM IND-Enablement and Submission	12/24/2013 - 12/23/2014	\$ 2,506,042

END OF MODIFICATION 1 OF HHSN272201300017C

Pursuant to 17 CFR 240.24b-2, confidential information has been omitted in places marked “* * *” and has been filed separately with the Securities and Exchange Commission pursuant to a Confidential Treatment Application with the Commission.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE 1 OF 2 PAGES
2. AMENDMENT/MODIFICATION NO. Two (2)	3. EFFECTIVE DATE See block #10C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (if applicable)
6. ISSUED BY National Institutes of Health National Institute of Allergy and Infectious Diseases DEA, Office of Acquisitions Room 3214, MSC 7812 6700-B Rockledge Drive Bethesda, MD 20892-7812	CODE	7. ADMINISTERED BY (if other than Item 6) MID RCB-A	CODE N/A
8. NAME AND ADDRESS OF CONTRACTOR (No. Street, county, State and ZIP Code)		(4)	9A. AMENDMENT OF SOLICITATION NO.
BIOCRYST PHARMACEUTICALS, INC. 4505 EMPEROR BLVD SUITE 200 DURHAM, NC 27703			9B. DATED (SEE ITEM 11)
CODE		FACILITY CODE	10A. MODIFICATION OF CONTRACT/ORDER NO. HHSN272201300017C
			10B. DATED (SEE ITEM 11) September 16, 2013

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
(a) By completing Items 8 and 15, and returning one (1) copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF PAR 43.103(b).
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
D. OTHER (Specify type of modification and authority) X Mutual Agreement of parties (FAR 1.602-1 and FAR 43.102)

E. IMPORTANT: Contractor is not, is required to sign this document and return their copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

PURPOSE: To revise and incorporate Attachment 1 Statement of work and revise Block 12 for Modification 1.
In Modification ,1 remove \$2,502,146 from Block 12 and revise Block 12 to read as follows: SOC 25.55 CAN 14-8470038 \$2,506,042

The completion date of the contract has not changed to September 15, 2017.
Total cost has not changed at \$7,502,146

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Jon P. Stonehouse CEO	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) John Outen, Contracting Officer Office of Acquisitions, DEA, NIAID, NIH, DHHS
15B. CONTRACTOR OFFEROR 	16B. UNITED STATES OF AMERICA BY
15C. DATE SIGNED 1-24-14	16C. DATE SIGNED 1/24/14

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105
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STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

SPECIAL PROVISIONS

**Contract No. HHSN272201300017C
Modification No. 2**

Beginning with the effective date of this modification, ARTICLE B.2. ESTIMATED COST -OPTION AND ARTICLE G.3 INVOICE SUBMISSION /CONTRACT FINANCING REQUEST IS REVISED

ARTICLE B.2. ESTIMATED COST -Option table below is revised to reflect as follows:

e. Payments from the base and executed options will be made from the following PRISM/NBS Line Item Numbers as follows:

<u>PRISM/NBS Line Item No.</u>	<u>Option/Increment Description</u>	<u>PRISM/NBS Line Item Period of Performance</u>	<u>Funded Amount</u>
1 (BASE)	Base Period: Non-GMP manufacture of drug substance, drug disposition, genetic toxicity and in vitro and small animal efficacy studies	09/16/2013-09/15/2014	\$ * * *
2 (Option 1)	Option 1-Manufacture of drug substance and drug product in compliance with cGMP guidance -GMP	09/16/2013 -03/16/2015	\$ * * *
3 (Option 2)	Option 2-DP and Development with DS Stability testing	09/16/2013 -09/15/2017	\$ * * *
4 (Option 3 MOD 1)	Option 3-IM IND-Enablement and Submission	12/24/2013 -12/23/2014	\$2,506,042

ARTICLE C.I. DESCRIPTION-STATEMENT OF WORK is revised to read as follows:

a. Independently and not as an agent of the Government, the Contractor shall furnish all the necessary services, qualified personnel, material, equipment, and facilities, not otherwise provided by the Government as needed to perform the Statement of Work, dated January 18, 2014, set forth, in SECTION J-List of Attachments, attached hereto and made a part of this contract.

SECTION J - LIST OF ATTACHMENTS is revised to read as follows:

The following documents are attached and incorporated in this contract:

1. Statement of Work

Statement of Work, dated January 18, 2014, 12 pages.

In consideration of this modification Contractor (Biocyrst Pharmaceuticals Inc.) agrees to this change as complete for the revision of the Statement of Work dated January 18, 2014. The Contractor hereby releases the Government from any and all liabilities under this contract agreement for further limitations and or adjustments attributable to the changes contained herein as such facts or circumstances given rise to the changes of clarifying Option 1. All other terms and conditions for Contract HHSN272201300017C are left intact and without change.

END OF MODIFICATION 2 OF HHSN272201300017C

Pursuant to 17 CFR 240.24b-2, confidential information has been omitted in places marked “ * * * ” and has been filed separately with the Securities and Exchange Commission pursuant to a Confidential Treatment Application with the Commission.

Contract: HHSN27220130017C

Statement of Work

Independently and not as an agent of the Government, the Contractor shall furnish all the necessary services, qualified personnel, material, equipment, and facilities, not otherwise provided by the Government as needed to perform the Statement of Work below:

1. Scope of Work

In response to BAA-NIAID-DMID-NIH-AI-2012149, BioCryst’s proposal focuses on BCX4430, a novel small molecule nucleoside with broad spectrum antiviral activity being developed for diseases caused by RNA pathogens. BCX4430, an inhibitor of viral RNA – dependent RNA polymerase (RdRp), is the lead compound in our BSAV program and the specific focus of this proposal. The overall goal of our work plan is to facilitate completion of appropriate studies required for the development of BCX4430 as a broad spectrum antiviral therapy and medical countermeasure for current and emerging infectious agents. The scope of the work activity described includes the filing of two IND applications for BCX4430 for the treatment of MARV disease delivered IM and IV and to conduct the initial phase 1 human clinical studies. BioCryst will be responsible for program management for all the work activities performed including project planning, vendor management, and performance oversight.

2. Product Development Plan

2.1. Base Period

Duration: * * *

2.1.1. Requirements

The base period activities shall focus on completing drug disposition studies, genetic toxicity studies and in vitro and small animal efficacy studies.

2.1.2. Genetic Toxicity

The contractor shall perform GLP testing in vitro genetic toxicity studies.

2.1.3. Drug Disposition

The contractor shall perform in vitro drug disposition and ADME studies.

January 18, 2014

Confidential

1

Pursuant to 17 CFR 240.24b-2, confidential information has been omitted in places marked “ * * * ” and has been filed separately with the Securities and Exchange Commission pursuant to a Confidential Treatment Application with the Commission.

Contract: HHSN27220130017C

Statement of Work

2.1.4. Decision Gates and Deliverables

The contractor shall submit all study reports upon completion of the studies and decision gate reports for exercising Options 3 and 5.

2.2. OPTION 1: GMP DS and IM DP Manufacture, PK/PD studies and Small Animal Efficacy Studies

Duration: * **

Entry Criterion: Successfully producing non-GMP drug substance that meets the DS release criteria

2.2.1. Requirements

Option Period 1 activities shall focus on completing the manufacture of drug substance and IM drug product in compliance with cGMP guidance and PK and PD studies and small animal efficacy studies.

2.2.2. Manufacture IM GMP DS for Ph1

The contractor shall manufacture GMP drug substance which meets specifications and provide required documentation.

2.2.3. IM GMP DP Development

The contractor shall perform formulation development, manufacture of IM GMP drug product and initiate stability studies.

2.2.4. In Vitro PK/PD Characterization and Small Animal Studies

The contractor shall utilize internal and external technical expertise as required to perform in vitro PK/PD and mechanism of action studies, in vivo small animal efficacy studies, and in vivo PK/PD studies with viruses requiring BSL4 facilities.

2.2.5. PK and PD studies and analyses

The contractor shall perform studies, analyses and method validation in infected and uninfected animal models to further characterize the PK and PD and dosing regimens.

January 18, 2014

Confidential

2

Pursuant to 17 CFR 240.24b-2, confidential information has been omitted in places marked “ * * * ” and has been filed separately with the Securities and Exchange Commission pursuant to a Confidential Treatment Application with the Commission.

Contract: HHSN27220130017C

Statement of Work

2.2.6. Decision Gates and Deliverables

The contractor shall submit GMP manufacturing reports, audit reports, and a decision gate report upon completion of the GMP manufacturing activities for exercising Option 4.

2.3. OPTION 2: DS and IM DP Stability

Duration: * * *

Entry Criterion: Successfully producing non-GMP drug substance that meets the DS release criteria

2.3.1. Requirements

The contractor shall perform stability studies to be conducted in appropriate facilities. The contractor shall conduct the studies per protocol in compliance with cGMP/ICH guidance as appropriate for this stage of development.

2.3.2. Decision Gates and Deliverables

The contractor shall submit stability reports after the conclusion of the studies.

2.4. OPTION 3: IM IND-Enablement and Submission

Duration: ***

Entry Criterion: Successfully producing non-GMP drug substance that meets the DS release criteria and acceptable safety profile from in vitro and genotoxicity studies

2.4.1. Requirements

Option Period 3 activities shall focus on completing: IM IND-enabling GLP studies

2.4.2. Toxicology

The contractor shall conduct and analyze GLP toxicology studies per protocol.

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Pursuant to 17 CFR 240.24b-2, confidential information has been omitted in places marked “ * * * ” and has been filed separately with the Securities and Exchange Commission pursuant to a Confidential Treatment Application with the Commission.

Contract: HHSN27220130017C

Statement of Work

2.4.3. Off Target Toxicology

The contractor shall conduct and analyze non-GLP cellular, mitochondrial, host polymerase toxicology and bone marrow toxicity studies per protocol.

2.4.4. Safety Pharmacology

The contractor shall conduct and analyze safety pharmacology studies per protocol.

2.4.5. IND Preparation & Submission

The contractor shall compile and publish an IND in eCTD format.

2.4.6. Decision Gates and Deliverables

The contractor shall submit all study reports upon completion of the studies, the IND submission documents and regulatory correspondence, audit reports, and a decision gate report for exercising Option 4.

2.5. OPTION 4: IM Phase 1 Clinical Trials

Duration: ***

Entry Criterion: Results from preclinical toxicology and safety pharmacology studies and manufacture of clinical trial material support first in human dosing

2.5.1. Requirements

Option Period 4 activities shall focus on completing phase 1 IM SAD/MAD studies.

2.5.2. Phase 1 IM SAD and MAD studies

The contractor shall conduct first-in human phase 1 IM SAD and MAD clinical pharmacology studies per protocol, analyze data based on statistical analysis plans, and in accordance with Good Clinical Practice (GCP), as well as all relevant policies and guidance from DMID, NIAID, NIH for conducting human clinical trials under contract.

January 18, 2014

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Contract: HHSN27220130017C

Statement of Work

2.5.3. Decision Gates and Deliverables

The contractor shall submit clinical trial protocols and reports and a decision gate report for exercising Option 10.

2.6. OPTION 5: Characterization of Efficacy in a Therapeutic NHP infection model

Duration: * * *

Entry Criterion: Demonstrated efficacy in small animal studies

2.6.1. Requirements

2.6.2. NHP Pharmacology

The contractor shall conduct efficacy studies in nonhuman primates and perform analyses to assess effective dose ranges and dose schedules for viruses requiring BSL4 facilities.

2.6.3. Decision Gates and Deliverables

The contractor shall submit study protocols and reports, regulatory correspondences, and audit reports if applicable.

2.7. OPTION 6: IV DP development and Non-GMP DS activities

Duration: * * *

Entry Criteria: Feasible IM drug product formulation

2.7.1. Requirements

The contractor shall conduct drug product development for an IV injection that can be formulated in a hospital setting using the IM formulation.

2.7.2. IV Drug substance preformulation

The contractor shall conduct preformulation studies and initiate stability studies of an IV formulation produced with the IM formulation.

Pursuant to 17 CFR 240.24b-2, confidential information has been omitted in places marked “ * * * ” and has been filed separately with the Securities and Exchange Commission pursuant to a Confidential Treatment Application with the Commission.

Contract: HHSN27220130017C

Statement of Work

2.7.3. Manufacture of non-GMP DS

The contractor shall manufacture non-GMP drug substance which meets specifications and provide required documentation.

2.7.4. Decision Gates and Deliverables

The contractor shall submit a decision gate report upon completion of the development activities for exercising Options 7, 8 and 9.

2.8. Option 7: GMP DS and IV DP Manufacture

Duration: * * *

Entry Criterion: Successfully producing non-GMP drug substance that meets the DS release criteria

2.8.1. Requirements

Option Period 7 activities shall focus on completing the manufacture of drug substance and IV drug product in compliance with cGMP guidance.

2.8.2. Manufacture IV GMP DS for Ph1

The contractor shall manufacture GMP drug substance which meets specifications and provide required documentation.

2.8.3. IV GMP DP Development

The contractor shall perform formulation development, manufacture and release testing of IV GMP drug product.

2.8.4. Decision Gates and Deliverables

The contractor shall submit manufacturing summaries, audit reports, and a decision gate report for exercising Option 10.

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Contract: HHSN27220130017C

Statement of Work

2.9. OPTION 8: IV DP Stability

Duration: ***

Entry Criterion: Successfully producing non-GMP drug substance that meets the DS release criteria

2.9.1. Requirements

The contractor shall perform stability studies to be conducted in appropriate facilities. The contractor shall conduct the studies per protocol in compliance with cGMP/ICH guidance as appropriate for this stage of development.

2.9.2. Decision Gates

The contractor shall submit stability reports at the completion of the studies.

2.10. OPTION 9: IV IND-Enablement and Submission

Duration: ** *

Entry Criterion: Successfully producing non-GMP drug substance the from Option 6 period that meets the DS release criteria and initiation of the remaining *in vitro* studies described in the Base and Option 3 periods of the IM development program

2.10.1. Requirements

Option Period 9 activities shall focus on completing: IV IND-enabling GLP studies.

2.10.2. Toxicology

The contractor shall conduct and analyze GLP toxicology studies per protocol.

2.10.3. Safety Pharmacology

The contractor shall conduct and analyze safety pharmacology studies per protocol.

2.10.4. IND Preparation & Submission

The contractor shall compile and publish an IND in eCTD format.

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Pursuant to 17 CFR 240.24b-2, confidential information has been omitted in places marked “ * * * ” and has been filed separately with the Securities and Exchange Commission pursuant to a Confidential Treatment Application with the Commission.

Contract: HHSN27220130017C

Statement of Work

2.10.5. Decision Gates and Deliverables

The contractor shall submit all study reports upon completion of the studies, the IND submission documents and regulatory correspondence, audit reports, and a decision gate report for exercising Option 10.

2.11. OPTION 10: Phase 1IV Clinical Trials

Duration: ***

Entry Criterion: Preclinical toxicology and safety pharmacology study results support first in human dosing

2.11.1. Requirements

Option Period 10 activities shall focus on completing phase 1IV SAD/MAD studies

2.11.2. Phase 1IV SAD and MAD studies

The contractor shall conduct first-in human phase 1IV SAD and MAD clinical pharmacology studies per protocol, analyze data based on statistical analysis plans, and in accordance with Good Clinical Practice (GCP), as well as all relevant policies and guidance from DMID, NIAID, NIH for conducting human clinical trials under contract.

2.11.3. IM / IV relative bioavailability study

The contractor shall conduct an IM / IV bioavailability study per protocol, analyze data based on statistical analysis plans, and in accordance with Good Clinical Practice (GCP), as well as all relevant policies and guidance from DMID, NIAID, NIH for conducting human clinical trials under contract.

2.11.4. Decision Gates and Deliverables

The contractor shall submit clinical trial protocols and reports at the completion of the studies.

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Statement of Work

3. Regulatory Compliance, QC, QA, and Data Management:

As required for the implementation of the Work Plan, the Contractor shall:

- Be responsible for the development and implementation of data management and quality control systems/procedures, including the transmission, storage, confidentiality, and retrieval of all study data.
- Provide for the statistical design and analysis of data resulting from the research undertaken.
- Provide raw data or specific analyses of data generated with contract funding to the Project Officer as requested.
- Ensure strict adherence to FDA regulations and guidance, including requirements for the conduct of animal studies and assays under GLP, the manufacturing of the therapeutic product under cGMP, and the conduct of clinical trials under GCP standards. The Contractor shall maintain quality assurance documentation to support adherence in these areas.
- Adhere to NIAID clinical trial guidance and requirement.
- Arrange for independent audits, as needed or as requested by the Project Officer. Audits may be requested to assure that Contractor and/or subcontractor facilities and all planned procedures comply with the FDA regulations and guidance that are required to meet GLP, cGMP and GCP standards. In addition, the Contractor shall ensure that all Contractor and/or subcontractor records and staff are available for site visits or audits.

4. Facilities and Other Resources:

The Contractor shall provide the equipment, facilities, training and other resources required to implement the Statement of Work and the Work Plan in compliance with all Federal and NIH regulations. This includes:

- Facilities and resources to develop i.v. and i.m. dosage forms of the lead candidate.
- Facilities and resources to perform manufacturing scale-up of the lead formulation and characterize the performance of the lead formulation.
- Facilities and resources to develop qualified and validated assays to measure drug composition, performance and potency drug formulations, perform long term stability testing of the final formulations and assess the pharmacokinetics, bio-distribution and clearance of this formulation in animals.
- Facilities and resources to perform efficacy studies in various animal efficacy models.
- Facilities and resources to manufacture according to cGMP requirements.
- Facilities and resources to perform animal GLP Toxicity Testing.
- Facilities and resources to perform single and multiple ascending dose studies in healthy adult subjects to determine the dose that is well tolerated in humans.
- Facilities and resources to perform long-term stability studies of drug substance and drug product

Contract: HHSN27220130017C

Statement of Work

5. Project Management:

- The Contractor shall provide all expertise needed for the implementation of the Work Plan to be performed under this contract, including: research, manufacturing, regulatory, clinical, statistical analyses, management and administrative activities.
- The Contractor shall appoint a Principal Investigator (PI) who will be responsible for all aspects of project performance and communication with the NIAID Contracting Officers.
- The Contractor shall provide a Project Management team who will be responsible for the day-to-day monitoring and tracking of progress and timelines, the coordination of project activities and costs incurred.
- The Contractor shall provide all managerial and administrative functions necessary for overall planning, monitoring, and implementing activities for the completion of the strategic product development plan.
 - Provide for project staffing
 - Provide for project planning
 - Provide for the implementation of project management systems
 - Provide for project monitoring and risk management
 - Provide for Tracking, Coordination and Oversight of Subcontractors' Efforts
- The contractor shall provide for all project communications.
 - Provide for communications with NIAID Officials
 - Provide for communications with subcontractors
 - Provide for communications with the external advisory group
- The contractor shall provide for all necessary legal affairs required to ensure the timely acquisition of all proprietary rights, including intellectual property rights and all materials needed to perform the project, as well as reporting to the Government all inventions made in the performance of the project.
- The Contractor shall provide all the planning and steps required for the conduct of contract review meetings.

Pursuant to 17 CFR 240.24b-2, confidential information has been omitted in places marked “ * * * ” and has been filed separately with the Securities and Exchange Commission pursuant to a Confidential Treatment Application with the Commission.

Contract: HHSN27220130017C

Statement of Work

6. Contract Review Meetings:

6.1. Post Award Contract Initiation Review and Report

In preparing the proposal, offerors should include costs for attendance at one Post Award Contract Initiation Review. Offerors should assume a one-day review will be conducted at/near Washington, D.C. or at the contractor site and attendance should include all Key Personnel and all Key Subcontractor personnel.

A report of the Post Award Contract Initiation Review shall be prepared by the Contractor and submitted within twenty-one (21) calendar days following the date of the reviews. These reports shall include the slide presentations and all other review materials as well as summaries of all discussions.

6.2. Annual Contract Reviews

The contractor, in consultation with the the NIAID Project Officer, will plan, organize and conduct annual review meetings to be held at the 12-month mark of each contract year. These reviews are anticipated to be held at the Contractor’s facility and a location at or near Washington D.C. on an alternating-year basis. The reviews are anticipated to be one-day reviews. Attendees shall include Key Personnel, members of the External Advisory Group, and Key Subcontractor personnel.

Annual Review Meetings shall be closed to the public and shall involve oral and electronic presentations to provide: (1) Updates on the status of efforts for each milestone since the prior meeting. (2) A description of any problem(s) that may have arisen and actions taken or recommended to resolve identified problems. (3) A discussion of future plans for each milestone.

A report of each Annual Contract Review shall be prepared by the Contractor and submitted within twenty-one (21) calendar days following the date of the reviews. These reports shall include the slide presentations and all other review materials as well as summaries of all discussions. Minutes of regular, as well as, ad hoc teleconferences and reviews shall be provided by the Contractor within two (2) business days following the date of the teleconference or review.

Pursuant to 17 CFR 240.24b-2, confidential information has been omitted in places marked “ * * * ” and has been filed separately with the Securities and Exchange Commission pursuant to a Confidential Treatment Application with the Commission.

Contract: HHSN27220130017C

Statement of Work

6.3. External Advisory Group Reviews

After contract award and in consultation with the Contracting Officer Representative (COR) and the Contracting Officer, the Contractor will establish an External Advisory Group with the relevant expertise to critically evaluate technical progress in achieving product development objectives and established timelines. It is anticipated that the External Advisory Group will consist of approximately 3-5 members. The membership of the External Advisory Group will be proposed by the Contractor and approved by the COR and Contracting Officer post-award. The specific roles and duties of the External Advisory Group members will be defined by the Contractor and approved by the COR. Compensation for this role will be provided by the Contractor with contract funds as approved by the Contracting Officer and will be commensurate with the specific roles and duties assigned to the members. The Contractor will have the External Advisory Group consulting agreements in place within six months of the effective date of the contract.

Reports of all reviews and communications with the External Advisory Group or its individual members will be documented and submitted to the COR and Contracting Officer. Documentation of such reviews/communications will be provided within twenty-one (21) calendar days and will include a summary of the discussions and copies of slide presentations.

7. REPORTS AND DELIVERABLES

All deliverables shall be submitted in accordance with Article C.2. Reporting Requirements and Article F.2. Deliverables of the contract.

January 18, 2014

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Subsidiaries of the Registrant

Subsidiary
JPR Royalty Sub LLC

Jurisdiction
of
Incorporation
Delaware

Consent of Independent Registered Public Accounting Firm

We consent to the incorporation by reference in the following Registration Statements:

- Registration Statements (Form S-8 Nos. 333-120345, 333-39484 and 333-30751) pertaining to the BioCryst Pharmaceuticals, Inc. 1991 Stock Option Plan, as amended and restated as of March 8, 2004;
- Registration Statement (Form S-8 No. 333-90582) pertaining to the BioCryst Pharmaceuticals, Inc. Employee Stock Purchase Plan;
- Registration Statement (Form S-8 No. 333-136703) pertaining to the BioCryst Pharmaceuticals, Inc. Stock Incentive Plan, which amended and restated the BioCryst Pharmaceuticals, Inc. 1991 Stock Option Plan as of May 17, 2006;
- Registration Statement (Form S-3 No. 333-145638) pertaining to the registration of up to 8,140,000 shares of common stock;
- Registration Statement (Form S-8 No. 333-145627) pertaining to the BioCryst Pharmaceuticals, Inc. Stock Incentive Plan as amended and restated effective March 2007 and Employment Letter Agreement dated April 2, 2007 between BioCryst Pharmaceuticals, Inc. and David McCullough;
- Registration Statement (Form S-3 No. 333-175182) for the registration of up to \$70 million of BioCryst Pharmaceuticals, Inc. common stock, preferred stock, depository shares, stock purchase contracts, warrants or units;
- Registration Statement (Form S-3 No. 333-153084) for the registration of 3,335,408 shares of BioCryst Pharmaceuticals, Inc. common stock and 3,159,895 warrants to purchase common stock of BioCryst Pharmaceuticals, Inc.;
- Registration Statement (Form S-8 No. 333-152570) pertaining to the BioCryst Pharmaceutical, Inc. Stock Incentive Plan, as amended and restated effective February 28, 2008 and the BioCryst Pharmaceuticals, Inc. Employee Stock Purchase Plan, as amended and restated effective February 28, 2008;
- Registration Statement (Form S-8 No. 333-167830) pertaining to the BioCryst Pharmaceuticals, Inc. Stock Incentive Plan, as amended and restated effective March 31, 2010 and the BioCryst Pharmaceuticals, Inc. Employee Stock Purchase Plan, as amended and restated effective March 31, 2010;
- Registration Statement (Form S-8 No. 333-176096) pertaining to the BioCryst Pharmaceutical, Inc. Stock Incentive Plan, as amended and restated effective February 17, 2011;
- Registration Statement (Form S-3 No. 333-192117) for the registration of up to \$125 million of BioCryst Pharmaceuticals, Inc. common stock, preferred stock, depository shares, stock purchase contracts, warrants or units;
- Registration Statement (Form S-8 No. 333-187193) pertaining to the BioCryst Pharmaceuticals, Inc. Stock Incentive Plan and Employee Stock Purchase Plan, each as amended and restated effective March 29, 2012

of our reports dated March 10, 2014 with respect to the consolidated financial statements of BioCryst Pharmaceuticals, Inc. and the effectiveness of internal control over financial reporting of BioCryst Pharmaceuticals, Inc. included in this Annual Report (Form 10-K) of BioCryst Pharmaceuticals, Inc. for the year ended December 31, 2013.

/s/ Ernst & Young LLP

Raleigh, North Carolina
March 10, 2014

CERTIFICATIONS

I, Jon P. Stonehouse, certify that:

1. I have reviewed this annual report on Form 10-K of BioCryst Pharmaceuticals, Inc.;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f) for the registrant and have:

a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

c) evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

d) disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

b) any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

/s/ Jon P. Stonehouse

Jon P. Stonehouse

Chief Executive Officer

Date: March 10, 2014

CERTIFICATIONS

I, Thomas R. Staab II, certify that:

1. I have reviewed this annual report on Form 10-K of BioCryst Pharmaceuticals, Inc.;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f) for the registrant and have:

a. designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

b. designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

c. evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

d. disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

a. all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

b. any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

/s/ Thomas R. Staab II

Thomas R. Staab II
Chief Financial Officer and Treasurer
(Principal Financial Officer)

Date: March 10, 2014

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report of BioCryst Pharmaceuticals, Inc. (the "Company") on Form 10-K for the period ending December 31, 2013 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Jon P. Stonehouse, Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that, to the best of my knowledge:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ Jon P. Stonehouse

Jon P. Stonehouse
Chief Executive Officer

March 10, 2014

This certification is furnished with this Report on Form 10-K pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 and shall not, except to the extent required by such Act, be deemed filed by the Company for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"). Such certification will not be deemed to be incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Exchange Act, except to the extent that the Company specifically incorporates it by reference.

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report of BioCryst Pharmaceuticals, Inc. (the "Company") on Form 10-K for the period ending December 31, 2013 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Thomas R. Staab, II, Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that, to the best of my knowledge:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ Thomas R. Staab II

Thomas R. Staab II
Chief Financial Officer and Treasurer
(Principal Financial Officer)

March 10, 2014

This certification is furnished with this Report on Form 10-K pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 and shall not, except to the extent required by such Act, be deemed filed by the Company for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"). Such certification will not be deemed to be incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Exchange Act, except to the extent that the Company specifically incorporates it by reference.