

bluebird bio, Inc.  
Form 4  
June 26, 2013

**FORM 4**

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

OMB APPROVAL

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**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
Mulder Geert-Jan

(Last) (First) (Middle)

C/O COOPERATIVE AAC LS  
U.A., PO BOX 5187

(Street)

NAARDEN, P7 1410 AD

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
bluebird bio, Inc. [BLUE]

3. Date of Earliest Transaction  
(Month/Day/Year)  
06/24/2013

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price
Common Stock	06/24/2013		C		1,155,121 (1)	A	\$ 0
					1,155,121	I	

See footnote (2)

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

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SEC 1474 (9-02)

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

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1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Underlying (Instr. 3 and 4)
						Date Exercisable	Expiration Date	Title
Series A-1 Convertible Preferred Stock	(3)	06/24/2013		C	2,643,906	(3)	(3)	Common Stock
Series A-2 Convertible Preferred Stock	(3)	06/24/2013		C	6,281,095	(3)	(3)	Common Stock
Series B Convertible Preferred Stock	(3)	06/24/2013		C	10,649,408	(3)	(3)	Common Stock
Series C Convertible Preferred Stock	(3)	06/24/2013		C	1,331,416	(3)	(3)	Common Stock
Series D Convertible Preferred Stock	(3)	06/24/2013		C	1,003,411	(3)	(3)	Common Stock
Warrant to Purchase Series A-1 Stock (right to buy)	\$ 0.6619	06/24/2013		J <sup>(4)</sup>	153,699	(5)	11/16/2015	Series A Convertible Preferred Stock
Warrant to Purchase Common (right to buy)	\$ 12.55	06/24/2013		J <sup>(4)</sup>	14,934	(5)	11/16/2015	Common Stock
Warrant to Purchase Series A-1 Stock (right to buy)	\$ 0.6619	06/24/2013		J <sup>(4)</sup>	188,849	(5)	10/26/2016	Series A Convertible Preferred Stock
Warrant to Purchase Common (right to buy)	\$ 12.55	06/24/2013		J <sup>(4)</sup>	9,956	(5)	10/26/2016	Common Stock

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buy)

Warrant to Purchase Series A-1 Stock (right to buy)	\$ 0.6619	06/24/2013	J <sup>(4)</sup>	623,204	<sup>(5)</sup>	05/03/2017	Series A Convertible Preferred Stock
Warrant to Purchase Common (right to buy)	\$ 12.55	06/24/2013	J <sup>(4)</sup>	32,856	<sup>(5)</sup>	05/03/2017	Common Stock
Warrant to Purchase Series A-1 Stock (right to buy)	\$ 0.6619	06/24/2013	J <sup>(4)</sup>	141,637	<sup>(5)</sup>	08/28/2018	Series A Convertible Preferred Stock
Warrant to Purchase Common (right to buy)	\$ 12.55	06/24/2013	J <sup>(4)</sup>	7,467	<sup>(5)</sup>	08/28/2018	Common Stock
Warrant to Purchase Series A-1 Stock (right to buy)	\$ 0.6619	06/24/2013	J <sup>(4)</sup>	141,637	<sup>(5)</sup>	12/18/2018	Series A Convertible Preferred Stock
Warrant to Purchase Common (right to buy)	\$ 12.55	06/24/2013	J <sup>(4)</sup>	7,467	<sup>(5)</sup>	12/18/2018	Common Stock
Warrant to Purchase Series A-1 Stock (right to buy)	\$ 0.6619	06/24/2013	J <sup>(4)</sup>	277,608	<sup>(5)</sup>	04/15/2019	Series A Convertible Preferred Stock
Warrant to Purchase Common (right to buy)	\$ 12.55	06/24/2013	J <sup>(4)</sup>	14,634	<sup>(5)</sup>	04/15/2019	Common Stock
Warrant to Purchase Series B Stock (right to buy)	\$ 0.3262	06/24/2013	J <sup>(6)</sup>	172,440	<sup>(5)</sup>	04/15/2019	Series B Convertible Preferred Stock

Warrant to  
Purchase  
Common  
(right to  
buy)

\$ 6.19

06/24/2013

J<sup>(6)</sup>

9,091

<sup>(5)</sup>

04/15/2019

Common  
Stock

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Mulder Geert-Jan C/O COOPERATIVE AAC LS U.A. PO BOX 5187 NAARDEN, P7 1410 AD	X			

## Signatures

/s/ Linda C. Bain,  
Attorney-in-Fact

06/26/2013

\*\*Signature of Reporting Person

Date

## Explanation of Responses:

\* If the form is filed by more than one reporting person, *see* Instruction 4(b)(v).

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

- Represents the total number of shares received upon conversion of shares of the Issuer's Series A-1 Convertible Preferred Stock (the "Series A-1 Shares"), Series A-2 Convertible Preferred Stock (the "Series A-2 Shares"), Series B Convertible Preferred Stock (the "Series B Shares"), Series C Convertible Preferred Stock (the "Series C Shares") and Series D Convertible Preferred Stock (the "Series D Shares" and together with the Series A-1 Shares, the Series A-2 Shares, the Series B Shares and the Series C Shares, collectively, the "Preferred Shares").
- (1) B Shares"), Series C Convertible Preferred Stock (the "Series C Shares") and Series D Convertible Preferred Stock (the "Series D Shares" and together with the Series A-1 Shares, the Series A-2 Shares, the Series B Shares and the Series C Shares, collectively, the "Preferred Shares").
  - (2) The securities are held directly by Cooperative AAC LS U.A. ("Cooperative"). The Reporting Person is a director of Cooperative and disclaims beneficial ownership of all shares held by the foregoing entity except to the extent of his pecuniary interest therein.
  - (3) Effective upon the closing of the Issuer's initial public offering of its Common Stock, each Preferred Share automatically converted at a ratio of 18.967-to-one into the number of shares of Common Stock shown in column 7. The Preferred Shares had no expiration date.
 

Upon completion of the Issuer's initial public offering, the warrant to purchase shares of Series A-1 Preferred Stock automatically converted on an 18.967-for-one basis into a warrant to purchase shares of Common Stock. Disposition of the Warrant to Purchase Series A-1 Preferred Stock and acquisition of the Warrant to Purchase Common Stock is listed solely for the purpose of reporting such conversion of the shares underlying the security.
  - (4) A-1 Preferred Stock and acquisition of the Warrant to Purchase Common Stock is listed solely for the purpose of reporting such conversion of the shares underlying the security.
  - (5) This warrant is immediately exercisable.
 

Upon completion of the Issuer's initial public offering, the warrant to purchase shares of Series B Preferred Stock automatically converted on an 18.967-for-one basis into a warrant to purchase shares of Common Stock. Disposition of the Warrant to Purchase Series B Preferred Stock and acquisition of the Warrant to Purchase Common Stock is listed solely for the purpose of reporting such conversion of the shares underlying the security.
  - (6) Stock and acquisition of the Warrant to Purchase Common Stock is listed solely for the purpose of reporting such conversion of the shares underlying the security.

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

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