FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									
hours per response	. 0.5								

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

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person*     Cole Jason				blue	2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									ationship o all applic Directo	able)	ng Per	son(s) to Is		
(Last)	(Fi	rst) (	Middle)			3. Date of Earliest Transaction (Month/Day/Year) 04/01/2014								X	Officer (give title below)			Other (s	
C/O BLUEBIRD BIO, INC.															SVP, S	Secy. & General Couns		el	
150 SECOND STREET					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street)														X Form filed by One Reporting Person					
CAMBRIDGE MA 02141													Form filed by More than One Reporting Person						
(City)	(S	tate) (	Zip)																
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3)  2. Transacti Date (Month/Day)						Execution Date,			3. 4. Securities A Disposed Of (D and 5)						5. Amount of Securities Beneficially Owned		Form (D) or Indire	: Direct r ect (I)	7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	mount (A) or (D)		:e	Followir Reported Transact (Instr. 3	ted action(s)		. 4)	(Instr. 4)
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)		4. Transaction Code (Instr. 8)		of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title ar Amount of Securities Underlyin Derivative (Instr. 3 a	of s ng e Secur	8. Price of Derivative Security rity (Instr. 5)		9. Numbe derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e s Illy	Ownershi Form: Direct (D) or Indirect (I) (Instr.	Beneficial Ownership
					Code	v	(A)	(D)	Date Exercisable		xpiration ate	Title	Amou or Numb of Shares	er					
Stock Option (right to buy)	\$22.53	04/01/2014			A		100,000		(1)	02	2/10/2024	Common Stock	100,0	00	\$0.00	100,00	00	D	

## Explanation of Responses:

1. This option vests over a four-year period, at a rate of twenty-five percent (25%) on March 6, 2015 and in 36 equal monthly installments thereafter.

## Remarks:

<u>/s/ Jason F. Cole</u> <u>04/03/2014</u>

\*\* Signature of Reporting Person Date

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

- \* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.