FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
OMB Number: 3235-0								
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).

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					2. Issuer Name <b>and</b> Ticker or Trading Symbol bluebird bio, Inc. [ BLUE ]						(Ch	Relationship of eck all applications	able)	g Perso	on(s) to Issu 10% Ow Other (s)	ner	
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC.				3. Date of Earliest Transaction (Month/Day/Year) 03/02/2015							below)		Genera	below)	·		
150 SECOND STREET					If Amendment, Date of Original Filed (Month/Day/Year)						6 1	6. Individual or Joint/Group Filing (Check Applicable					
(Street) CAMBRIDGE MA 02141			4.	4. II Amenument, Date of Original Filed (Month/Day/Year)						Line							
(City)	(S	tate)	(Zip)									reisui	l				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
Date				Transactior ate lonth/Day/Yo	Execution Date,		3. Transaction Disposed Of (D) (Instr. 3, 4) (Code (Instr. 5)				Beneficia Owned F	es Forn ally (D) o Following (I) (Ir		m: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership		
						Code V	Amount	(A) or (D)	Price	Reported Transact (Instr. 3 a	on(s)			nstr. 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/Yea	Code (Inst				6. Date Exerc Expiration Da (Month/Day/Y	ite	and 7. Title and Am of Securities Underlying Derivative Secu (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	Ownersh S Form: Ully Direct (D Or Indirect (I) (Instr.		Beneficial Ownership ct (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares						
Stock Option (right to buy)	\$97.4	03/02/2015		A		35,000		(1)	03/02/2025	Common Stock	35,000	\$0.00	35,000		D		

## **Explanation of Responses:**

1. This option vests over a four-year period, at a rate of twenty-five percent (25%) on January 1, 2016 and in 36 equal monthly installments thereafter.

## Remarks:

Jason F. Cole

03/03/2015

\*\* 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.