FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
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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 and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								(Check	tionship of Reportir all applicable) Director Officer (give title		ng Person(s) to Iss 10% Ov Other (s		ner	
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 150 SECOND STREET					3. Date of Earliest Transaction (Month/Day/Year) 06/09/2015								X	below) below) SVP, Secy. & General Counsel				·	
(Street) CAMBRIDGE MA 02141					_ 4.1	4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicabline) X Form filed by One Reporting Person Form filed by More than One Reporting Person					۱
(City)	(5)	State)	(Zip)	Non Dori	· · o t is · ·		:4:				lionoood .	of or [Donofio	بيالمنا	0	<u> </u>			
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date,		3.				(A) or		5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
								İ	Code	v	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)				Instr. 4)
Common Stock			06/09/20)15	15			M		2,000	A	\$22.	\$22.53		000	D			
Common Stock			06/09/20	015				S ⁽¹⁾		132	D	\$188.2	2367 ⁽²⁾ 1		868	D			
Common Stock				06/09/20)15				S ⁽¹⁾		447	D	\$187.7	7.7204 ⁽³⁾ 1,		421	D		
Common Stock 06/				06/09/20)15				S ⁽¹⁾		368	D	\$186.5	956 ⁽⁴⁾	1,053		D		
Common Stock 06/09/202						15			S ⁽¹⁾		381	D	\$185.5273 ⁽⁵⁾		672		D		
Common Stock 06/09/20)15	15			S ⁽¹⁾		672	D	\$184.6206 ⁽⁶⁾		0		D	D		
		,	Table						-		sposed of			-	wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exect if any	3A. Deemed Execution Date, if any (Month/Day/Year)		action (Instr.	5. Number		Expir	te Exer ation D th/Day/	cisable and bate Year)	7. Title and Amount of Securities Underlying Derivative Sec (Instr. 3 and 4)		De Se (In	Price of erivative ecurity istr. 5)	9. Number derivative Securities Securities Gwned Following Reported Transactio (Instr. 4)	Ownersh Form: Direct (D or Indirect (I) (Instr.	n: ct (D) idirect	11. Nature of Indirect Beneficial Ownership (Instr. 4)
						v	(A) (D)		Date Exercisable		Expiration Date	Title	Amou or Numb of Share	er					
Stock Option (right to buy)	\$22.53	06/09/2015			М			2,000	((7)	02/10/2024	Commo			\$0.00	79,000		D	

Explanation of Responses:

- 1. The sales reported in the Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on August 7, 2014
- 2. The range in prices for the transaction reported on this line was \$188.16 to \$188.61. The average weighted price was \$188.2367. The reporting person will provide, upon request by the SEC, the issuer or security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 3. The range in prices for the transaction reported on this line was \$187.00 to \$187.96. The average weighted price was \$187.7204. The reporting person will provide, upon request by the SEC, the issuer or security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 4. The range in prices for the transaction reported on this line was \$186.00 to \$186.83. The average weighted price was \$186.5956. The reporting person will provide, upon request by the SEC, the issuer or security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 5. The range in prices for the transaction reported on this line was \$185.12 to \$185.85. The average weighted price was \$185.5273. The reporting person will provide, upon request by the SEC, the issuer or security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 6. The range in prices for the transaction reported on this line was \$184.31 to \$184.88. The average weighted price was \$184.6206. The reporting person will provide, upon request by the SEC, the issuer or security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 7. 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:

/s/ Jason F. Cole

06/11/2015

** 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.