FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATE	1ENT	OF	CHA	NGE

F CHANGES IN BENEFICIAL OWNERSHIP

OMB APPRO	VAL
OMB Number:	3235-0287
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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* Finer Mitchell H.				2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								(Che	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director Director Officer (give title Other (specify below))						
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 150 SECOND STREET					3. Date of Earliest Transaction (Month/Day/Year) 06/01/2015								7	below)			below)	peony	
				_ 4.	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) CAMBRIDGE MA 02141													X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(S	tate)	(Zip)												Persor	I			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
		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			nd 5)		es ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership			
						Code	v	Amount	(A) or (D)	Price		Reporte Transac (Instr. 3	tion(s)			Instr. 4)			
Common Stock 06/01/2		06/01/2	015	5		M		15,000	A	\$	24.47	15	15,000)				
Common Stock 0		06/01/2	015	15			S ⁽¹⁾		4,842	D	\$188	3.5856	(2) 10),158)			
Common Stock		06/01/2	015				S ⁽¹⁾		1,593	D	\$18	9.253 ⁽	3) 8,	.565	I)			
Common Stock		06/01/2	015				S ⁽¹⁾		3,106	D	\$190	90.5689(4)		5,459)			
Common Stock		06/01/2	015				S ⁽¹⁾		4,022	D	\$ <mark>19</mark> 1	191.4193 ⁽⁵⁾		,437)			
Common Stock 06.		06/01/2	015	15			S ⁽¹⁾		813	D	\$192	.92.3605(6)		624)			
Common Stock 06/01/201			015	.5		S ⁽¹⁾		375	D	\$193.3133(7)		(7)	249)				
Common Stock 06/0			06/01/2	015	.5			S ⁽¹⁾		83	D	\$19	94.35(8) 1	166)		
Common	Stock			06/01/2	015				S ⁽¹⁾		166	D	\$1 <mark>9</mark>	5.065 ⁽⁾	9)	0)	
		7	Гable								sposed of s, convert				Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year) Execution Date, if any (Month/Day/Year) Transaction Code (Instr. 8) Secu Acqu (A) is of (D) of (D)				umber vative urities uired or oosed o) (Instr. and 5)	Expiration Date (Month/Day/Year) of Securities Underlying Derivative Se (Instr. 3 and 4				curity)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		0. Iwnership orm: Irect (D) r Indirect) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
		Code V (A) (D)		(D)	Date Expirati Exercisable Date		Expiration Date	Title	or No of	ımber									
Stock Option (right to buy)	\$24.47	06/01/2015			M			15,000	0 (10)		03/03/2024	Comm Stock		5,000	\$0.00	40,000		D	

Explanation of Responses:

- 1. The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on December 22, 2014.
- 2. The range of prices for the transaction reported on this line was \$188.22 to \$188.99. The average weighted price was \$188.5856. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 3. The range of prices for the transaction reported on this line was \$189.13 to \$189.50. The average weighted price was \$189.2530. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 4. The range of prices for the transaction reported on this line was \$190.00 to \$190.91. The average weighted price was \$190.5689. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 5. The range of prices for the transaction reported on this line was \$191.01 to \$191.93. The average weighted price was \$191.4193. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 6. The range of prices for the transaction reported on this line was \$192.00 to \$192.64. The average weighted price was \$192.3605. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 7. The range of prices for the transaction reported on this line was \$193.00 to \$193.75. The average weighted price was \$193.3133. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 8. The range of prices for the transaction reported on this line was \$194.35 to \$194.35. The average weighted price was \$194.3500. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 9. The range of prices for the transaction reported on this line was \$195.01 to \$195.12. The average weighted price was \$195.0650. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 10. This option vests over a four-year period, at the rate of twenty-five percent (25%) on January 1, 2015, and in 36 equal monthly installments thereafter.

Remarks:

/s/ Jason F. Cole, Attorney-in- 06/03/2015

Fact

** 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.