SEC Form 4	
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FORM 4

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

OMB APPROVAL

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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

1. Name and Address of Reporting Person [*] Cole Jason		2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 60 BINNEY STREET		3. Date of Earliest Transaction (Month/Day/Year) 06/06/2017	X Officer (give title Other (specify below) Chief Legal Officer					
(Street) CAMBRIDGE MA (City) (State)	02142 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	 6. Individual or Joint/Group Filing (Check Applicable Line) X 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)	Transaction Code (Instr.					5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1150.4)	
Common Stock	06/06/2017		М		15,070	A	\$22.53	30,871	D		
Common Stock	06/06/2017		М		1,740	A	\$50.51	32,611	D		
Comon Stock	06/06/2017		S ⁽¹⁾		16,810	D	\$100.2204(2)	15,801	D		
Common Stock	06/07/2017		М		435	A	\$50.51	16,236	D		
Common Stock	06/07/2017		S ⁽¹⁾		435	D	\$100.05	15,801	D		

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

	(e.g., puis, calls, warrains, 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. Transa Code (8)		of Deri Sec Acq (A) o Disp of (I	umber vative urities uired or oosed D) (Instr. and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		I 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Option (right to buy)	\$22.53	06/06/2017		М			15,070	(3)	02/10/2024	Common Stock	15,070	\$0.00	36,812	D	
Stock Option (right to buy)	\$50.51	06/06/2017		М			1,740	(4)	03/01/2026	Common Stock	1,740	\$0.00	13,935	D	
Stock Option (right to buy)	\$50.51	06/07/2017		М			435	(4)	03/01/2026	Common Stock	435	\$0.00	13,500	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 December 15, 2016

2. The range in prices for the transaction reported on this line was \$100.00 to \$100.70. The average weighted price was \$100.2204. 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. 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.

4. This option vests over a four-year period, at a rate of twenty-five percent (25%) on January 4, 2017, and in 36 equal monthly installments.

Remarks:

/s/ Jason F. Cole

** Signature of Reporting Person Date

06/08/2017

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

 \ast 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.