FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
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0.5

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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 <b>and</b> Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								(Check	all appli Directo	,	g Pers	10% O	wner	
	(Fi JEBIRD BI OND STRI			3. Date of Earliest Transaction (Month/Day/Year) 03/16/2017								X	below)		Other (spe below) gal Officer		<b>эреспу</b>			
F					4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv Line) X	-,					
		Tab	le I -	Non-Deri	vative	e Sec	uriti	es A	cquir	ed, D	Disposed	of, or I	Benefic	ially	Owned	k				
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Yea						Execution Da			Code (Ins		4. Securities Disposed Of		d 5) Secur Benet Owne		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		Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)	
Common Stock 03/16/2017					)17	7			M		4,930	A	\$22.	22.53		.6,981		D		
Common Stock 03/16/2017					)17	.7			S <sup>(1)</sup>		4,930	D	\$100.0	743 <sup>(2)</sup>	12	12,051		D		
		Т	able								sposed of s, convert				wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	ıtion Date,		saction de (Instr. Securitie Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		vative urities uired or osed o) r. 3, 4	Expiration I (Month/Day			7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		De Se (In	Price of erivative ecurity istr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)	s S Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisable		Expiration Date	Amo or Num of Shar		er						
Stock Option (right to	\$22.53	03/16/2017			M			4,930	(	(3)	02/10/2024	Commo		0	\$0.00	55,632		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 15, 2016.
- 2. The range in prices for the transaction reported on this line was \$100.00 to \$100.40. The average weighted price was \$100.0743. 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.

## Remarks:

Jason F. Cole

03/20/2017

\*\* Signature of Reporting Person

Date

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

- $^{\star}$  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.