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

1. Name and Address of Reporting Person* <u>Gregory Philip D</u>						2. Issuer Name <b>and</b> Ticker or Trading Symbol bluebird bio, Inc. [ BLUE ]									all appli Directo	•	g Pers	on(s) to Iss 10% Ov Other (s	/ner	
	(Fi JEBIRD BI EY STREE	O, INC.	(Middle	2)		3. Date of Earliest Transaction (Month/Day/Year) 10/02/2017									below) below)  Chief Scientific Officer				рсспу	
(Street) CAMBR (City)			02142 (Zip)	2	_   4.1	4. If Amendment, Date of Original Filed (Month/Day/Year)									ndividual or Joint/Group Filing (Check Applicable e) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tab	le I -	Non-Deri	vative	e Sec	uriti	ies A	cquir	ed, D	isposed (	of, or E	Benefic	ially	Owned	l				
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/		2A. Deemed Execution Date, if any (Month/Day/Year)		ate,	3. Transa Code ( 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 a			5)	5. Amount of Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Price		Transac	saction(s) r. 3 and 4)			Instr. 4)	
Common Stock				10/02/20	)17				M		1,250	A	\$50.	51	30	30,734		D		
Common Stock				10/02/20	017				S <sup>(1)</sup>		2,200	D	\$131.8	159 <sup>(2)</sup>	28	8,534		D		
Common Stock				10/02/20	)17			S <sup>(1)</sup>		50	D	\$132	\$132.15		28,484		D			
		Т	able								sposed of				wned					
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)			Expir	te Exer ation D th/Day/		7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		De Se (In	Price of erivative ecurity 1str. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transactio (Instr. 4)	ly O Fo O (I)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amou or Numb of Share	er						
Stock Option (right to	\$50.51	10/02/2017			M			1,250		(3)	03/01/2026	Commo Stock		50	\$0.00	24,500		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 March 17, 2017.
- 2. The range in prices for the transaction reported on this line was \$131.05 to \$132.00. The average weighted price was \$131.8159. 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 January 4, 2017 and in 36 equal monthly installments thereafter.

## Remarks:

/s/ Jason F. Cole, Attorney-in-Fact

\*\* Signature of Reporting Person

10/04/2017

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.