FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

U	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

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1. Name and Address of Reporting Person* <u>Davidson David</u>							2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								all appli Directo	cable) or	g Person(s) to Is		wner
	(F JEBIRD B IEY STRE	•		3. Date of Earliest Transaction (Month/Day/Year) 03/02/2018									below)			Other (s below) Officer	specify		
					_ 4. I	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(S		(Zip)	Nan Davi		- 6		A				-£ [fin	iallar	0				
1. Title of Security (Instr. 3) 2. Transar Date (Month/Date)					on	n 2A. Dee		ate,	3.		A. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and		(A) or		5. Amo Securit Benefic Owned	unt of ies ially Following	Form (D) o	: Direct r Indirect str. 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 03/02/201						3			M		4,000	Α	\$5.50	5.5004		8,905		D	
Common Stock 03/02/2						3			S ⁽¹⁾		2,000	D	\$200.6	006(2)	26	26,905		D	
Common Stock 03/02/201						3			S ⁽¹⁾		1,700	D	\$201.6	\$201.6793 ⁽³⁾		25,205		D	
Common Stock 03/02/20)18	8			S ⁽¹⁾		300	D	\$202.3167(4)		24	24,905		D	
		7	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)	Execu if any	eemed ution Date,	4. Transa Code (8)	5. Number of		6. Dat		cisable and	ole and 7. Title and Amount of		8. De Se		9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exerc	cisable	Expiration Date	Title	Amou or Numb of Share	er					
Stock Option (right to	\$5.5004	03/02/2018			M			4,000	((5) 01/16/20		Commo		00	\$0.00 63,95			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 12, 2016.
- 2. The range in prices for the transaction reported on this line was \$200.00 to \$200.85. The average weighted price was \$200.6006. 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 \$201.15 to \$202.10. The average weighted price was \$201.6793. 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 \$202.25 to \$202.35. The average weighted price was \$202.3167. 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. This option to purchase shares of our common stock was granted on January 16, 2013 with performance-based vesting criteria that were met as of April 1, 2013 and May 1, 2013. The shares underlying these options vested as follows: 25% vested on April 1, 2014 and May 1, 2014, respectively, with the remainder of the shares vesting in equal monthly installments over the following three years.

Remarks:

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

03/06/2018

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.