FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGE	S IN BENEFI	CIAL OWN	ERSHIP

l	OMB APPRO	VAL
	OMB Number:	3235-0287
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l	hours per response:	0.5

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* Davidson David (Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 60 BINNEY STREET					3. I	2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE] 3. Date of Earliest Transaction (Month/Day/Year) 08/02/2018									elationship of Reporting Person(s) to Issuer ck all applicable) Director 10% Owner Cofficer (give title Other (specify below) Chief Medical Officer				
(Street) CAMBRIDGE MA 02142 (City) (State) (Zip)					_ 4. I _	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv Line) X	vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
	`	-		Non-Deri	vativ	e Sec	uriti	ies A	cauir	ed. D)isposed	of. or I	3enefic	rially	Owner	<u> </u>			
1. Title of Security (Instr. 3)			2. Transacti Date (Month/Day/	on	n 2A. Deemed Execution Date,		eemed tion Date,			4. Securities Acquired (A		(A) or		5. Amount of Securities Beneficially Owned 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((Instr. 3 and				(Instr. 4)	
Common Stock				08/02/20	018				M		7,000	Α	\$5.5	004	31	,905	D		
Common Stock				08/02/20	018				S ⁽¹⁾		5,790	D	\$150.1	.773(2)	26	,115	D		
Common Stock				08/02/20)18				S ⁽¹⁾		1,110	D	\$151.2	2149 ⁽³⁾ 25		,005	D		
Common Stock			08/02/20)18				S ⁽¹⁾		100	D	\$152.1		24,905		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)	Execu if any	eemed ution Date,	4. Transa	saction e (Instr. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		8. De Se (In	rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y Ow Fo Dir or (I)	vnership rm: ect (D) Indirect (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amo or Num of Share	ber					
Stock Option (right to	\$5.5004	08/02/2018			M			7,000		(4)	01/16/2023	Commo		00	\$0.00	43,951		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 13, 2017.
- 2. The range in prices for the transaction reported on this line was \$150.00 to \$150.90. The average weighted price was \$150.1773. 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 \$151.00 to \$151.60. The average weighted price was \$151.2149. 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. 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 January 1, 2013. The shares underlying these options vested as follows: 25% vested on January 1, 2014, with the remainder of the shares vesting in equal monthly installments over the following three years.

Remarks:

/s/ Jason F. Cole, Attorney-in-08/06/2018 <u>Fact</u>

** 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.