FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

l	OMB APPROVAL										
	OMB Number:	3235-028									

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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)

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

Davids (Last) C/O BLU	C/O BLUEBIRD BIO, INC.						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE] 3. Date of Earliest Transaction (Month/Day/Year) 07/11/2018									5. Relationship of Reporting Person(s) to Issue Check all applicable) Director 10% Owne X Officer (give title below) Chief Medical Officer				
60 BINNEY STREET (Street) CAMBRIDGE MA 02142 (City) (State) (Zip)						4. If Amendment, Date of Original Filed (Month/Day/Year)								. Indiv ine) X	·					
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Yea						2A. Deemed Execution Date,			3. Transaction Code (Instr. 8)		Disposed of, or Benefi 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and			5. A Sec Ben Owi		unt of ies ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
Common Stock 07/11/2018									Code M	v	Amount 3,000	(A) or (D)	Price \$5.50	(Instr.		ed ction(s) and 4)	П		Instr. 4)	
Common Stock 07/11/2018 Common Stock 07/11/2018						_			S ⁽¹⁾	-	3,000	D	\$180.14			,905	Γ			
		7	able						•	•	sposed of , converti	•		•	wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execu	eemed ution Date, th/Day/Year)		saction of Derivative Securities (A) or Disposec of (D) (Instr. 3, and 5)		vative urities uired or oosed O) tr. 3, 4	Expiration I (Month/Day		ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		De Se (In	Price of rivative curity str. 5)		Owners Form: y Direct (or Indir (I) (Inst	wnership	Beneficial Ownership ct (Instr. 4)	
					Code	· v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amour or Numbe of Shares	r						
Stock Option (right to	\$5.5004	07/11/2018			M			3,000	(3)	01/16/2023	Commo			\$0.00	50,951		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 \$180.00 to \$180.55. The average weighted price was \$180.1475. 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 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-07/13/2018 **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.