FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	S IN BENEFICIAL	OWNERSHIP

l	OMB APPRO	VAL
	OMB Number:	3235-0287
l	Estimated average burde	en
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  (Street)					3. I 04	Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [ BLUE ]      Date of Earliest Transaction (Month/Day/Year)     4. If Amendment, Date of Original Filed (Month/Day/Year)								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner X Officer (give title Other (specify below) below)  Chief Medical Officer  6. Individual or Joint/Group Filing (Check Applicabl Line)  X Form filed by One Reporting Person					plicable	
CAMBR (City)		A tate)	(Zip)		-										Form filed by More than One Reporting Person					
(- 3)				Non-Deriv	vative	e Sec	uriti	ies A	cquir	ed, D	)isposed (	of, or I	Benefic	cially	Owned	<u> </u>				
		2. Transaction Date (Month/Day/		Execution (ear) if any		emed tion Date, n/Day/Year)		ction Instr.	4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and			5)		es 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		Reporte Transac (Instr. 3	tion(s)			(Instr. 4)	
Common Stock 04/04/				04/04/20	19	9			M		6,360	A	\$5.5	004	37	,976	Ι	)		
Common Stock 04/0				04/04/20	19	9			S <sup>(1)</sup>		2,623	D	\$159.4	691 <sup>(2)</sup>	35	,353	Ι	)		
Common Stock 04/04/201				19	)			S <sup>(1)</sup>		2,704	D	\$160.2	160.2171(3)		32,649		)			
Common Stock 04/04/20				19	9		S <sup>(1)</sup>		1,033	D	\$161.	\$161.144(4)		31,616		)				
			Table								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)	Exect if any	eemed ution Date, th/Day/Year)		nsaction of le (Instr. Deriv		or oosed 0) tr. 3, 4	Expiration I (Month/Day		ate	7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		rity De Se		9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owners Form: Direct ( or Indir (I) (Inst	wnership	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amo or Num of Shar	ber						
Stock Option (right to	\$5.5004	04/04/2019			M			6,360	(	(5)	01/16/2023	Commo		60	\$0.00	6,690		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 January 10, 2019.
- 2. The range in prices for the transaction reported on this line was \$158.84 to \$159.78. The average weighted price was \$159.4691. 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 \$159.88 to \$160.75. The average weighted price was \$160.2171. 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 \$160.93 to \$161.51. The average weighted price was \$161.144. 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 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-

04/08/2019

**Fact** 

\*\* Signature of Reporting Person

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.