FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	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

Name and Address of Reporting Person* Davidson David						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								all applic	cable)	g Person(s) to Is 10% C	
	(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 60 BINNEY STREET						3. Date of Earliest Transaction (Month/Day/Year) 11/02/2018								below) below) Chief Medical Officer		
(Street) CAMBR (City)	treet) AMBRIDGE MA 02142						4. If Amendment, Date of Original Filed (Month/Day/Year)							vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
1. Title of Security (Instr. 3)				2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr.		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and			5. Amount of Securities Beneficially Owned Follo		unt of ies ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
								Code	v	Amount	(A) or (D)	(A) or (D) Price		Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)
Common	Stock			11/02/20)18			М		5,000	A	\$5.500	04	29	,905	D	
Common Stock 11/0)18			S ⁽¹⁾		92	D	\$128.	.3	29	,813	D	
Common	11/02/20	1/02/2018			S ⁽¹⁾		405	D	\$130.41	30.4177(2)		,408	D				
Common Stock 11)18			S ⁽¹⁾		501	D	\$131.37	27 ⁽³⁾	28	,907	D	
Common Stock 11/02/201)18			S ⁽¹⁾		600	D	\$133.08	3 ⁽⁴⁾	28	,307	D	
Common Stock 11/02/2018)18			S ⁽¹⁾		1,702	D	\$134.11	L <mark>5</mark> (5)	26	,605	D	
Common Stock 11/02/2018								S ⁽¹⁾		1,700	D	\$135.09	54 ⁽⁶⁾	24	,905	D	
		٦	able							sposed o				wned			
1. Title of Derivative Security (Instr. 3)	itle of 2. Ivative Conversion Date Secution Date, urity or Exercise (Month/Day/Year)			action (Instr.	5. Number of Derivative Securities Acquired (A) or	Expiration e (Month/Day			Amount of		De Se (In	Price of rivative curity str. 5)	9. Number derivative Securities Beneficiall Owned Following	Ownershi Form:	Beneficial Ownership (Instr. 4)		

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)	Code (Fransaction of Code (Instr. Derivative			6. Date Exerc Expiration Da (Month/Day/\)	ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Option (right to buy)	\$5.5004	11/02/2018		M			5,000	(7)	01/16/2023	Common Stock	5,000	\$0.00	26,951	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 \$130.00 to \$130.58. The average weighted price was \$130.4177. 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 \$131.1225 to \$131.70. The average weighted price was \$131.3727. 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 \$132.65 to \$133.56. The average weighted price was \$133.083. 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. The range in prices for the transaction reported on this line was \$133.66 to \$134.52. The average weighted price was \$134.115. 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.
- 6. The range in prices for the transaction reported on this line was \$134.94 to \$135.78. The average weighted price was \$135.0954. 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.
- 7. 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-

Fact

** Signature of Reporting Person

11/06/2018

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.