FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHII

OMB APPROVAL OMB Number: Estimated average burden 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 ar <u>Davids</u>		2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									all appli Directo	r		10% Ov	vner				
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 60 BINNEY STREET						3. Date of Earliest Transaction (Month/Day/Year) 12/03/2018									X Officer (give title Other (specify below) Chief Medical Officer				
(Street)	!	_	4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check A Line) X Form filed by One Reporting Pers Form filed by More than One Rep Person										ting Perso	n					
(City)	(S		(Zip)	Nan Dari			:4:	^			viana a a d	-4 [) fi	-:-!!	0				
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye					on Year)	2A. Deemed Execution Date,			3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 an		(A) or		5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	(A) or (D)	Price		Reporte Transac (Instr. 3	ction(s)			(Instr. 4)
Common Stock				12/03/2018				M		6,000	A	\$5.5	5004	30	,905	D			
Common Stock				12/03/2018				S ⁽¹⁾		6,000	D	\$113.5	5896 ⁽²⁾	24	,905	D			
Common Stock				12/04/2018					M		2,000	Α	\$5.5	5004	26	5,905	1	D	
Common Stock 12/04/					18				S ⁽¹⁾		900	D	\$1	.20	26	5,005		D	
Common Stock 12/04/20					18	8			S ⁽¹⁾		1,100	D	\$121.9164 ⁽³⁾		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	eemed ution Date, th/Day/Year)	4. Transa Code (8)			vative irities uired or osed) r. 3, 4	Expiration Day/		ate	7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		De Se (In	Price of erivative ecurity istr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Owners Form: Direct (or Indi (I) (Inst	Ownership	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	ode V		(D)	Date Exercisable		Expiration Date	Title	Amo or Num of Shai	nber					
Stock Option (right to buy)	\$5.5004	12/03/2018			M			6,000	((4)	01/16/2023	Commo Stock		000	\$0.00	20,951		D	
Stock Option	\$5.5004	12/04/2018			M			2,000		(4)	01/16/2023	Commo		000	\$0.00	18,951		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 \$113.10 to \$114.04. The average weighted price was \$113.5896. 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 \$121.77 to \$122.06. The average weighted price was \$121.9164. 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:

buy)

12/06/2018

** 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.