FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APP	ROVAL
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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				ssuer Name and T <u>uebird bio, In</u>				(Che	ck all applica Director	ıble)	Person(s) to Issue	ner				
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 60 BINNEY STREET			02/	Date of Earliest Tra /01/2018	`		X	below) C	Officer (give title Other (specify below) Chief Medical Officer							
(Street) CAMBR (City)		MA State)	02142 (Zip)		4. l [·]	4. If Amendment, Date of Original Filed (Month/Day/Year)						ividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Та	ble I -	Non-De	rivativ	e Securities A	cquir	ed, I	Disposed o	of, or E	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. 8)		4. Securities Of (D) (Instr.	I (A) or Dispose 5)	Securitie Beneficia Owned F	s Illy ollowing	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
							Code	v	Amount	(A) or (D)	Price	Reported Transacti (Instr. 3 a	ion(s)		(Instr. 4)	
Common	Stock ⁽¹⁾			02/01/	2018		A		11,250	A	\$0.00	24,	905	D		
Common	Stock			02/02/	2018		М		4,000	A	\$5.5004	28,	905	D		
Common	Stock			02/02/	2018		S ⁽²⁾		2,600	D	\$201.9065	3) 26,	305	D		
Common Stock			02/02/	2018		S ⁽²⁾		1,400	D	\$203.2032	24,	905	D			
			Table			Securities Ac calls, warran						Owned				
1. Title of Derivative Security (Instr. 3)	Derivative Conversion Date Execution Date, Tra Security or Exercise (Month/Day/Year) if any Co		4. Transac Code (Ir		Exp (Mo	iration	xercisable and n Date ay/Year)	of Securities		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial	Ownership Form:	11. Nature of Indirect Beneficial Ownership			

Derivative Security (Instr. 3)	Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year)	Execution Date, if any (Month/Day/Year)	Code (Instr. 8)		Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expiration Date (Month/Day/Year)		of Securities Underlying Derivative Security (Instr. 3 and 4)		Derivative Security (Instr. 5)	Reported	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	of Indirect Beneficial Ownership (Instr. 4)	
						(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		Transaction(s) (Instr. 4)			
Stock Option (right to buy)	\$205.25	02/01/2018		A		45,000		(5)	02/01/2028	Common Stock	45,000	\$0.00	45,000	D		
Stock Option (right to buy)	\$5.5004	02/02/2018		M			4,000	(6)	01/16/2023	Common Stock	4,000	\$0.00	67,951	D		

Explanation of Responses:

- $1. \ Restricted \ stock \ units \ for \ common \ stock \ vest \ over \ a \ four-year \ period \ at \ a \ rate \ of \ 25\% \ on \ 01/04/2019, \ 25\% \ on \ 01/04/2020, \ 25\% \ on \ 01/04/2021, \ and \ 25\% \ on \ 01/04/2022.$
- 2. The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on December 12, 2016.
- 3. The range of prices for the transaction reported on this line was \$201.55 to \$202.45. The average weighted price was \$201.9065. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 4. The range of prices for the transaction reported on this line was \$202.95 to \$203.50. The average weighted price was \$203.2032. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 5. This option vests over a four-year period, at a rate of twenty-five percent (25%) on January 4, 2019, and in 36 equal monthly installments.
- 6. 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**

02/05/2018

** 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.