### FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
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0.5

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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*  Deviden Devid			2. Issuer Name <b>and</b> bluebird bio, In			0 ,		5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
Davidson David			,			- ,	x	Director Officer (give title		10% Owner Other (specify		
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 60 BINNEY STREET			3. Date of Earliest Tra 01/02/2019	ansaction	n (Mo	nth/Day/Year)	^	Chief Medical Officer				
(Street) CAMBRIDGE MA	2	4. If Amendment, Dat	te of Orig	ginal F	Filed (Month/E	Line)	6. Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting Person					
(City) (State)	(Zip)											
Table I - Non-Deriv												
	Table I -	Non-Derivati	ve Securities A	cquire	ed, [	Disposed	of, or I	Beneficially	Owned			
1. Title of Security (Instr. 3)		Non-Derivati  2. Transaction Date (Month/Day/Year	2A. Deemed Execution Date,	3. Transac Code (I 8)	ction	4. Securities Disposed Of	Acquired	d (A) or	5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
1. Title of Security (Instr. 3)		2. Transaction Date	2A. Deemed Execution Date, if any	3. Transac Code (I	ction	4. Securities	Acquired	d (A) or	5. Amount of Securities Beneficially	Form: Direct (D) or Indirect	of Indirect Beneficial	
Title of Security (Instr. 3)  Common Stock		2. Transaction Date	2A. Deemed Execution Date, if any	3. Transac Code (I 8)	ction nstr.	4. Securities Disposed Of	Acquired (D) (Insti	d (A) or r. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	Form: Direct (D) or Indirect	of Indirect Beneficial Ownership	
		2. Transaction Date (Month/Day/Year	2A. Deemed Execution Date, if any	3. Transac Code (I 8)	ction nstr.	4. Securities Disposed Of Amount	Acquired (D) (Insti	d (A) or . 3, 4 and 5) Price	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	Form: Direct (D) or Indirect (I) (Instr. 4)	of Indirect Beneficial Ownership	
Common Stock		2. Transaction Date (Month/Day/Year 01/02/2019	2A. Deemed Execution Date, if any	3. Transac Code (I 8)	ction nstr.	4. Securities Disposed Of Amount 2,800	Acquired (D) (Insti	d (A) or r. 3, 4 and 5)  Price \$5.5004	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	Form: Direct (D) or Indirect (I) (Instr. 4)	of Indirect Beneficial Ownership	

## Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

**S**<sup>(1)</sup>

M

**S**<sup>(1)</sup>

4,700

100

100

D

A

D

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)	4. Transa Code ( 8)			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	01/02/2019		M			2,800	(5)	01/16/2023	Common Stock	2,800	\$0.00	16,151	D	
Stock Option (right to buy)	\$24.47	01/02/2019		M			4,700	(6)	03/03/2024	Common Stock	4,700	\$0.00	9,300	D	
Stock Option (right to buy)	\$24.47	01/03/2019		M			100	(6)	03/03/2024	Common Stock	100	\$0.00	9,200	D	

# **Explanation of Responses:**

Common Stock

Common Stock

Common Stock

1. The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on July 9, 2018.

01/02/2019

01/03/2019

01/03/2019

- 2. The range in prices for the transaction reported on this line was \$95.90 to \$96.86. The average weighted price was \$96.3496. 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 \$96.90 to \$97.60. The average weighted price was \$97.0451. 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 \$100.00 to \$100.32. The average weighted price was \$100.0881. 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.
- 6. This option vests over a four-year period, at a rate of twenty-five percent (25%) on January 1, 2015 and in 36 equal monthly installments thereafter.

#### Remarks:

\$100.0881(4)

\$24.47

\$100.32

24,905

25,005

24,905

D

D

D

\*\* 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.