FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

l	OMB APPRO	VAL
l	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

1. Name and Address of Reporting Person* <u>Davidson David</u>						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									all applic	cable)		Ssuer Dwner (specify
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 60 BINNEY STREET						3. Date of Earliest Transaction (Month/Day/Year) 10/02/2017									below)		below ical Officer	
(Street) CAMBRIDGE MA 02142 (City) (State) (Zip)				_ 4.1	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv Line) X	ividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tab	le I -	Non-Deri	vative	Sec	uriti	es A	cquir	ed, D	Disposed (of, or E	Benefic	ially	Owned	l		
1. Title of Security (Instr. 3)		2. Transaction	Transaction 2A. Exe		2A. Deemed Execution Date, if any		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and		(A) or	5. Amo Securit Benefic		ies I cially (Form: Direct (D) or Indirect	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Price		Reporte Transac (Instr. 3	tion(s)		(Instr. 4)
Common Stock				10/02/20	17				M		4,000	Α	\$5.50	004	19	,977	D	
Common Stock				10/02/20)17				S ⁽¹⁾		1,341	D	\$130.3	373 ⁽²⁾	18	,636	D	
Common Stock 10/0				10/02/20	17	.7			S ⁽¹⁾		2,459	D	\$131.7524 ⁽³⁾		16,177		D	
Common Stock 10/02/201			17	.7			S ⁽¹⁾		200	D	\$132.2		15,977		D			
		Т	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)	3A. Deem Execution	eemed ution Date,	4. Transa	ansaction of Derivati Securiti Acquire (A) or Dispose of (D) (Instr. 3 and 5)		umber vative urities uired or oosed 0)	6. Date Exer Expiration I (Month/Day		cisable and	7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		8. De Se (In	rivative curity	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership t (Instr. 4)
					Code	v	(A)	(D)	Date Exerc	cisable	Expiration Date	Title	Amou or Numb of Share	oer				
Stock Option (right to	\$5.5004	10/02/2017			M			4,000	((4)	01/16/2023	Commo Stock		00	\$0.00	87,151	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 12, 2016.
- 2. The range of prices for the transaction reported on this line was \$130.00 to \$130.75. The average weighted price was \$130.3730. 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.
- 3. The range of prices for the transaction reported on this line was \$131.05 to \$132.00. The average weighted price was \$131.7524. 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. 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-10/04/2017 <u>Fact</u>

** 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.