FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C. 20549
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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).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL 3235-0287 Estimated average burden hours per response: 0.5

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* Smith-Farrell Joanne						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								Check	all app Direc		ng Pers	10% O	wner
						3. Date of Earliest Transaction (Month/Day/Year) 01/05/2021								X Officer (give title Other (specify below) COO, Oncology					
(Street)	Street) CAMBRIDGE MA 02142				4.	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(Oity)	(0			Non-Deriva	tive	Sacui	ritias A	Can	iirad	l Di	ennead c	of or l	Renefic	ially	Own	ad			
1. Title of Security (Instr. 3) 2. Transac Date				2. Transaction	,	2A. Deemed		3. Trar	3. Transaction Code (Instr.		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and		d (A) or	5. Am Secui Bener		ount of ties cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership
								Cod	le V	, ,	Amount	(A) or (D)	Price	Tran		saction(s) 3 and 4)		. 4)	(Instr. 4)
Common Stock				01/05/202	1			S ⁽¹	L)		42	D	\$44.95	22(2)		21,896		D	
Common Stock 01/0				01/06/202	1		5		l)		749	D	\$44.75	86 ⁽³⁾	21,147			D	
Common Stock 01/0				01/06/202	.1			S ⁽¹	l)		538	D	\$45.46	35 ⁽⁴⁾	20,609			D	
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exe if ar	a. Deemed recution Date, any onth/Day/Year)		nsaction e (Instr.	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expiration (Month/Day			Amo Secu Unde Deriv	le and unt of rities rrlying vative rity (Instr. i 4)	Der Sec (Ins	vative urity tr. 5)	9. Number or derivative Securities Beneficially Owned Following Reported Transaction((Instr. 4)	/ D	.0. Dwnership Form: Direct (D) or Indirect I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Cod	e V	(A) (E		Date Exerci	isable	Expiration Date	ı Title	or Number of Shares						

Explanation of Responses:

- 1. Shares were sold to cover tax withholding obligations incurred in connection with the vesting of Restricted Stock Units.
- 2. The range in prices for the transaction reported on this line was \$44.71 to \$45.09. The average weighted price was \$44.9522. 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 \$44.25 to \$45.24. The average weighted price was \$44.7586. 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 \$45.25 to \$45.83. The average weighted price was \$45.4635. 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.

Remarks:

/s/ Helen C. Fu, Attorney-in-

01/08/2021

Fact

** 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.