UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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FORM 4

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

					or Se	ction 3	30(h) of the li	nvestmer	nt Cor	npany Act of	f 1940								
					2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner						
					3. Date of Earliest Transaction (Month/Day/Year) 11/11/2021								below	Officer (give title Of below) be Chief Business Offic			specify		
					4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street) CAMBRIDGE MA 02142													X Form filed by One Reporting Person Form filed by More than One Reporting						
(City)	(S	state)	(Zip)										Person						
		Та	able I - Nor	n-Deriva	ative S	ecu	rities Aco	uired,	Dis	posed of	, or Ben	eficia	ly Owned						
1. Title of Security (Instr. 3)				2. Transa Date (Month/E		Execution Date,		Transaction Disposed Code (Instr.		ties Acquired (A) or d Of (D) (Instr. 3, 4 and 5		d 5) Securit Benefic Owned	Beneficially Owned Following		/nership :: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership			
									v	Amount	(A) or (D)	Price	Transad	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)		
Common	Stock ⁽¹⁾⁽²⁾⁽³)		11/11	1/2021			J		1,539	Α	\$) 24	24,271		D			
Common	Stock ⁽²⁾⁽³⁾⁽⁴)		11/11	11/11/2021					3,077	A	\$) 27	27,348		D			
Common	Common Stock ⁽²⁾⁽³⁾⁽⁵⁾			11/11	1/11/2021					6,645	A	\$) 33	33,993		D			
Common	Stock ⁽²⁾⁽³⁾⁽⁶)		11/11	/11/2021			J		27,606	i A	\$) 61	61,599		D			
Common	Stock ⁽²⁾⁽³⁾⁽⁷)		11/11	1/2021			J		64,781	. A	\$) 12	126,380		D			
Common Stock ⁽²⁾⁽³⁾⁽⁸⁾ 11/1				11/11	1/2021		J		64,779 A		\$) 19	191,159		D				
			Table II -				ties Acqu varrants,						/ Owned						
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		3A. Deemed Execution Date if any (Month/Day/Yea	Co	e, Transaction Code (Instr.		Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Am of Securities Underlying Derivative Secu (Instr. 3 and 4)		Derivative Security		re es ally ig	10. Ownershi Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)		
				Co	de V	(A)	(D)	Date Expiration Title Amount or Number of Shares	er	Transaction(s) (Instr. 4)									
Stock Option (right to buy)	\$48.52 ⁽⁹⁾	11/11/2021		J			35,000 ⁽⁹⁾	(9)		03/02/2025	Common Stock	34,45	8 \$0	34,4	58	D			
Stock Option (right to buy)	\$25.16 ⁽¹⁰⁾	11/11/2021		J			8,938 ⁽¹⁰⁾	(10)		03/03/2026	Common Stock	8,79	\$0	8,79	9	D			
Stock Option (right to buy)	\$37.66 ⁽¹¹⁾	11/11/2021		J			28,500 ⁽¹¹⁾	(11)		02/01/2027	Common Stock	28,05	9 \$0	28,0	59	D			
Stock Option (right to buy)	\$102.24 ⁽¹²⁾	11/11/2021		J			25,000 ⁽¹²⁾	(12)		02/01/2028	Common Stock	24,61	3 \$0	24,6	13	D			
Stock Option (right to buy)	\$67.06 ⁽¹³⁾	11/11/2021		J			25,000 ⁽¹³⁾	(13)		02/01/2029	Common Stock	24,61	3 \$0	24,6	13	D			
Stock Option (right to buy)	\$36.78 ⁽¹⁴⁾	11/11/2021		J			18,000 ⁽¹⁴⁾	(14)		03/02/2030	Common Stock	17,72	1 \$0	17,7	21	D			
Stock Option (right to buy)	\$14.17 ⁽¹⁵⁾	11/11/2021		J			27,500 ⁽¹⁵⁾	(15)		02/16/2031	Common Stock	55,21	1 \$0	55,2	11	D			

Explanation of Responses:

1. Represents restricted stock units awarded to the reporting person prior to the separation (the "Separation") of 2seventy bio, Inc. ("2seventy") from bluebird bio, Inc. ("bluebird"). In connection with the Separation, the restricted stock units underlying this award were adjusted pursuant to the Employee Matters Agreement by and between 2seventy and bluebird (the "EMA") such that the reporting person received restricted stock units of 2seventy to preserve the value associated with the original restricted stock unit award (see footnotes 2 and 3). This restricted stock unit award was originally granted on February 1, 2018 and vests 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. bluebird equity awards granted prior to January 1, 2021 were converted into equity awards of both bluebird and 2seventy. The number of shares underlying the converted bluebird equity awards was determined by multiplying the number of shares underlying the existing bluebird equity award by a fraction, the numerator of which is the volume-weighted average trading price of bluebird common stock (trading "regular way") on the five trading days immediately following the distribution VWAP") and the denominator of which is the sum of (1) the volume-weighted average trading price of 2seventy common stock (trading "regular way") on the five trading days immediately following the distribution date (the "bluebird Post-Distribution VWAP").

3. bluebird equity awards granted on or after January 1, 2021, such equity awards continued as bluebird equity awards, subject to adjustment. The adjusted number of shares of bluebird common stock underlying such equity awards is equal to the number of shares of bluebird common stock subject to the equity award immediately prior to the distribution multiplied by a fraction, the numerator of which is the bluebird Pre-

Distribution VWAP and the denominator of which is the bluebird Post-Distribution VWAP.

4. Represents restricted stock units awarded to the reporting person prior to the Separation. In connection with the Separation, the restricted stock units underlying this award were adjusted pursuant to the EMA such that the reporting person received restricted stock units of 2seventy to preserve the value associated with the original restricted stock unit award (see footnotes 2 and 3). This restricted stock unit award was originally granted on February 1, 2019 and vests over a four-year period at a rate of 25% on 01/04/2020, 25% on 01/04/2021, 25% on 01/04/2022, and 25% on 01/04/2023.

5. Represents restricted stock units awarded to the reporting person prior to the Separation In connection with the Separation, the restricted stock units underlying this award were adjusted pursuant to the EMA such that the reporting person received restricted stock units of 2seventy to preserve the value associated with the original restricted stock unit award (see footnotes 2 and 3). This restricted stock unit award was originally granted on March 2, 2020 and vests over a four-year period at the rate of 25% on 01/04/2021, 25% on 01/04/2022, 25% on 01/04/2023, and 25% on 01/04/2024.

6. Represents restricted stock units awarded to the reporting person prior to the Separation. In connection with the Separation, the restricted stock units underlying this award were adjusted pursuant to the EMA to preserve the value associated with the original restricted stock unit award (see footnotes 2 and 3). This restricted stock unit award was originally granted on February 16, 2021 and vests over a four-year period at the rate of 25% on 01/04/2022, 25% on 01/04/2023, 25% on 01/04/2024, and 25% on 01/04/2025.

7. Represents restricted stock units awarded to the reporting person prior to the Separation. In connection with the Separation, the restricted stock units underlying this award were adjusted pursuant to the EMA to preserve the value associated with the original restricted stock unit award (see footnotes 2 and 3). This restricted stock unit award was originally granted on August 2, 2021 and vests over a two-year period at the rate of 40% on August 2, 2022 and 60% on August 2, 2023.

8. Represents restricted stock units awarded to the reporting person prior to the Separation. In connection with the Separation, the restricted stock units underlying this award were adjusted pursuant to the EMA to preserve the value associated with the original restricted stock unit award (see footnotes 2 and 3). This restricted stock unit award was originally granted on August 2, 2021 and vests upon the satisfaction of certain performance criteria

9. Represents options to purchase bluebird common stock awarded to the reporting person prior to the Separation. In connection with the Separation, the shares of common stock underlying this award were adjusted pursuant to the EMA such that the reporting person received options to purchase shares of 2seventy common stock to preserve the value associated with the original award (see footnotes 2 and 3). This option was originally granted on March 2, 2015 and is fully vested and exercisable as of the date hereof. The exercise price of the option has been adjusted based on the conversion ratio described in footnotes 2 and 3.

10. Represents options to purchase bluebird common stock awarded to the reporting person prior to the Separation. In connection with the Separation, the shares of common stock underlying this award were adjusted pursuant to the EMA such that the reporting person precised parts of the expension on stock to preserve the value associated with the reporting person received options to purchase shares of Seventy common stock to preserve the value associated with the original award (see footnotes 2 and 3). This option was originally granted on March 1, 2016 is fully vested and exercisable as of the date hereof. The exercise price of the option has been adjusted based on the conversion ratio described in footnotes 2 and 3.

11. Represents options to purchase bluebird common stock awarded to the reporting person prior to the Separation. In connection with the Separation, the shares of common stock underlying this award were adjusted pursuant to the EMA such that the reporting person received options to purchase shares of 2seventy common stock to preserve the value associated with the original award (see footnotes 2 and 3). This option was originally granted on February 1, 2017 and is fully vested and exercisable as of the date hereof. The exercise price of the option has been adjusted based on the conversion ratio described in footnotes 2 and 3.

12. Represents options to purchase bluebird common stock awarded to the reporting person prior to the Separation. In connection with the Separation, the shares of common stock underlying this award were adjusted pursuant to the EMA such that the reporting person received options to purchase shares of 2seventy common stock to preserve the value associated with the original award (see footnotes 2 and 3). This option was originally granted on February 1, 2018 and vests over a four-year period, at a rate of twenty-five percent (25%) on January 4, 2019, and in 36 equal monthly installments. The exercise price of the option has been adjusted based on the conversion ratio described in footnotes 2 and 3.

13. Represents options to purchase bluebird common stock awarded to the reporting person prior to the Separation. In connection with the Separation, the shares of common stock underlying this award were adjusted pursuant to the EMA such that the reporting person precise shares of 2seventy common stock to preserve the value associated with the original award (see footnotes 2 and 3). This option was originally granted on February 1, 2019 and vests over a four-year period, at a rate of twenty-five percent (25%) on January 4, 2020 and in 36 equal monthly installments thereafter. The exercise price of the option has been adjusted based on the conversion ratio described in footnotes 2 and 3.

14. Represents options to purchase bluebird common stock awarded to the reporting person prior to the Separation. In connection with the Separation, the shares of common stock underlying this award were adjusted pursuant to the EMA such that the reporting person precise shares of 2seventy common stock to preserve the value associated with the original advatation (see four order of the original advatation) and the original advatation of the order of th based on the conversion ratio described in footnotes 2 and 3.

15. Represents options to purchase bluebird common stock awarded to the reporting person prior to the Separation. In connection with the Separation, the shares of common stock underlying this award were adjusted pursuant to the EMA to preserve the value associated with the original award (see footnotes 2 and 3). This option was originally granted on February 16, 2021 and vests over a four-year period at the rate of 25% on 01/04/2022 and then in 36 equal monthly installments thereafter. The exercise price of the option has been adjusted based on the conversion ratio described in footnotes 2 and 3.

Remarks:

/s/ Helen Fu, Attorney-in-Fact 11/17/2021

** 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.

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