SEC Form 4	
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FORM 4

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UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

OMB Number:	3235-0287							
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Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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 [*] Vachon Mark					2. Issuer Name and Ticker or Trading Symbol <u>bluebird bio, Inc.</u> [BLUE]									5. Relationship of Reportin (Check all applicable) X Director				10% Owner						
(Last) (First) (Middle) 60 BINNEY STREET					3. Date of Earliest Transaction (Month/Day/Year) 11/11/2021										Officer (below)	give title		Other (s below)	specify					
(Street) CAMBR (City)		1A State)	02142 (Zip)		4.	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applica Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person									
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																							
1. Title of Security (Instr. 3) 2. Trans Date				sactio				3. Transaction Code (Instr. 5) 3. 4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)					l (A) or	Ť	5. Amount of Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)					
									Code	v	Amount (A		(A) or (D)	Price		Transaction(s) (Instr. 3 and 4)				(
Common Stock ⁽¹⁾⁽²⁾⁽³⁾			11/11	1/2021				J		6,241	1 A		\$0)	9,898		18 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. 3. Transaction Date 3A. Deemed Execution Date, (Month/Day/Year) 1. Title of Derivative Security 2. 3. Transaction Date 3A. Deemed Execution Date, (Month/Day/Year)		Co	Fransaction Code (Instr.		Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)			of Un De	Title and Securitio derlying rivative str. 3 an	es I Security	Derivat Securit urity (Instr. 5		9. Number derivative Securities Beneficia Owned Following Reported Transacti	e s dly g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)						
				Ca	ode	v	(A)	(D)	Date Exercisa			Tit	le	Amoun or Numbe of Shares	r		(Instr. 4)							
Stock Option (right to buy)	\$92.14 ⁽⁴⁾	11/11/2021	/11/2021		J			7,384 ⁽⁴⁾) (4)		(4)		06/04/2025		ommon Stock	7,384		\$0	7,384	4	D			
Stock Option (right to buy)	\$55.29 ⁽⁵⁾	11/11/2021			J			3,938 ⁽⁵⁾	(5)		(5)		(5)				ommon Stock	3,938	38 \$0		3,938	8	D	
Stock Option (right to buy)	\$ 91.2 ⁽⁶⁾	11/11/2021			J			3,938 ⁽⁶⁾	(6)		06/20/2028		ommon Stock	3,938	3	\$0	3,938	8	D					
Stock Option (right to buy)	\$60.78 ⁽⁷⁾	11/11/2021			J			3,938 ⁽⁷⁾	(7)		06/06/2029		ommon Stock	3,938	3	\$0	3,938	В	D					
Stock Option (right to buy)	\$31.93 ⁽⁸⁾	11/11/2021			J			2,953 ⁽⁸⁾	(8)		06/18/2030		ommon Stock	2,953		\$0	2,953	3	D					
Stock Option (right to buy)	\$16.36 ⁽⁹⁾	11/11/2021			J			10,038 ⁽⁹⁾	(9)		06/15/2031		ommon Stock	10,03	8	\$0	10,03	8	D					
	1 of Respon																							

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 2 seventy and bluebird (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 June 15, 2021 and vests 100% on the earlier of June 15, 2022 or the date of the next annual meeting of stockholders

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 prior to the distribution date (the "bluebird Pre-Distribution VWAP") and the denominator of which is the sum of (1) the volume-weighted average trading price of Vary for the five taking days immediately following the distribution of the variable day intervention of the variable day intervention of the variable days interventing days intervention of the variable days in

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 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 June 4, 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).

5. 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 June 8, 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

6. 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 June 20, 2018 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

7. 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 June 6, 2019 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. 8. 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 June 18, 2020 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). This option was originally granted on June 18, 2020 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). This option was originally granted on June 18, 2020 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.

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 to preserve the value associated with the original award (see footnotes 2 and 3). This option shall vest 100% on the earlier of June 15, 2022 or the date of the next annual meeting of the stockholders. 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 11/16/2021

** Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

 \ast 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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