FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPRO	VAL
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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>Leschly Nick</u>						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									all appli Directo	onship of Reporting Person(s) to Issuer Il applicable) Director 10% Owner			vner
	(F JEBIRD B IEY STRE	IO, INC.	(Middle	2)		3. Date of Earliest Transaction (Month/Day/Year) 08/31/2017								X	Officer (give title Other (spe below) President and CEO			pecify	
(Street) CAMBR (City)	treet) CAMBRIDGE MA 02142					4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv Line) X	vidual 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	e Sec	uriti	ies A	cquir	ed, D	Disposed (of, or E	Benefic	cially	Owned	l			
1. Title of Security (Instr. 3)		2. Transaction	Transaction 2A. D Exect Internal 2A and Executive Internal 2A and Execut				3.		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and		(A) or	5. Am Secul Bene Owne		unt of ies ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount (A) or (D)		Price			ransaction(s) nstr. 3 and 4)		1	(Instr. 4)
Common Stock		08/31/20	17	7			S ⁽¹⁾		24,333	D	\$115.	089(2)	28	9,368		D			
Common Stock			09/01/20	017				M		6,364	A	\$5.5	004	29	5,732		D		
Common	Stock			09/01/20	17				S ⁽¹⁾		22,500	D	\$130.0)437 ⁽³⁾	7 ⁽³⁾ 273,232 D				
Common Stock														17	',186		I !	Nick Leschly 2001 Trust	
		٦	Гablе								sposed of				wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execu	3A. Deemed Execution Date, if any		4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			cisable and late	7. Title and Amount of Securities Underlying Derivative Sec (Instr. 3 and 4)		8. De Se	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Owners Form: Direct or India (I) (Inst	Ownership	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exerc	cisable	Expiration Date	Title	Amo or Num of Shar	ber					
Stock Option (right to	\$5.5004	09/01/2017			M			6,364		(4)	01/16/2023	Commo Stock		64	\$0.00	243,355	5	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 22, 2016.
- 2. The range of prices for the transaction reported on this line was \$115.00 to \$115.65. The average weighted price was \$115.0890. 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 \$130.00 to \$130.30. The average weighted price was \$130.0437. 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 vest over a four-year period, at a rate of twenty-five percent (25%) on May 1, 2014, and in 36 equal monthly installments thereafter.

Remarks:

/s/ Jason F. Cole, Attorney-in-09/05/2017 **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.