FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

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

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 [*] Sullivan Eric						2. Issuer Name and Ticker or Trading Symbol <u>bluebird bio, Inc.</u> [BLUE]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
(Last) (First) (Middle)					3. Date of Earliest Transaction (Month/Day/Year) 04/03/2017									x	Offic belo	er (give title w)		(specify /)	
C/O BLUEBIRD BIO, INC. 60 BINNEY STREET					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)				
(Street)														X Form filed by One Reporting Person					
CAMBRIDGE MA 02142															Form filed by More than One Reporting Person				
(City) (State) (Zip)																			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
Date				2. Transad Date (Month/Da		2A. Deemed Execution Date, if any (Month/Day/Year)			Code (In			4. Securities Acquired (Disposed Of (D) (Instr. 3 and 5)			Secur Benef Owne	icially d	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership	
					Code	v	Amour	unt (A) or P		rice			(Instr. 4)	(Instr. 4)					
Common Stock ⁽¹⁾ 04/03/20					2017	017			А		30	0	A	\$0.00	300		Ι	By spouse ⁽²⁾	
Common Stock															6,466		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)	if any	on Date,	4. Transac Code (In 8)		n Number		6. Date Exe Expiration (Month/Day		and 7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		of De Se (In	Price rivative curity str. 5)	9. Number of derivative e Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership		
					Code	v	(A)	(D)	Date Exercisable	Exp	oiration e	Title	Amor or Numl of Share	ber					
Stock Option (right to buy)	\$88.55	04/03/2017			A		1,200		(3)	04/	03/2027	Commor Stock	1,20	00	\$0.00	1,200	I	By spouse ⁽²⁾	

Explanation of Responses:

1. Restricted stock units for common stock vests over a four-year period at a rate of 25% on 04/03/2018, 25% on 04/03/2019, 25% on 04/03/2020, and 25% on 04/03/2021.

2. Equity grants held by the reporting person's spouse, who is employed by the issuer

3. This option vests over a four-year period, at a rate of twenty-five percent (25%) on April 3, 2018 and in 36 equal monthly installments thereafter.

Remarks:

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

** Signature of Reporting Person Date

Fact

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.