## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

**OMB APPROVAL** 

OMB Number:	3235-0287
Estimated average bur	den
hours per response:	0.5

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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 Sullivan Eric (Last) C/O BLUEBIRD	(First)	Issuer Name and bluebird bio, I      Date of Earliest Tr 07/06/2017	<u>nc.</u> [ 1	BLUI	E j ´		tionship of Reportin all applicable) Director Officer (give title below) Principal Acc	10% ( Other below	10% Owner Other (specify below)					
(Street) CAMBRIDGE (City)	MA (State)	02142 (Zip)	2	Line) X Form filed I							oup Filing (Check Applicable One Reporting Person Hore than One Reporting			
		able I -	1	ive Securities Acquired, Disposed of, or Beneficially Owned										
a. Thus of Goodins, (mounty,		2. Transaction Date (Month/Day/Yea	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Disposed Of	Acquire (D) (Inst	d (A) or r. 3, 4 and 5)	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) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(instr. 4)			
Common Stock			07/05/2017	,	M		250	A	\$20.7	6,657	D			
Common Stock			07/05/2017	,	M		196	A	\$24.47	6,853	D			
Common Stock			07/05/2017	,	M		201	A	\$50.51	7,054	D			
Common Stock			07/05/2017	,	M		2,933	A	\$56.3	9,987	D			
Common Stock			07/05/2017	,	S		3,580	D	\$107.2936(1)	6,407	D			
Common Stock			07/05/2017	·	S		733 <sup>(2)</sup>	D	\$107.2242 <sup>(3)</sup>	5,674	D			
Common Stock										300	I	By spouse <sup>(4)</sup>		

## Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

(cigi, pate, cane, marane, options, contentions)															
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code ( 8)		of Deri Sec Acq (A) ( Disp of (I	osed D) tr. 3, 4	6. Date Exerc Expiration Da (Month/Day/\)	ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Options (right to buy)	\$20.7	07/05/2017		M			250	(5)	12/02/2023	Common Stock	250	\$0.00	1,000	D	
Stock Option (right to buy)	\$24.47	07/05/2017		М			196	(6)	03/03/2024	Common Stock	196	\$0.00	1,020	D	
Stock Option (right to buy)	\$50.51	07/05/2017		М			201	(7)	03/01/2026	Common Stock	201	\$0.00	6,069	D	
Stock Option (right to buy	\$56.3	07/05/2017		М			2,933	(8)	08/01/2026	Common Stock	2,933	\$0.00	8,802	D	

## **Explanation of Responses:**

- 1. The range in prices for the transaction reported on this line was \$107.25 to \$107.40. The average weighted price was \$107.2936. 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.
- 2. Shares were sold to cover tax withholding obligations incurred in connection with the vesting of Restricted Stock Units.
- 3. The range in prices for the transaction reported on this line was \$107.15 to \$107.30. The average weighted price was \$107.2242. 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.
- $4. \ \mbox{Equity}$  grants held by the reporting person's spouse, who is employed by the issuer
- 5. This option vests over a four-year period, at a rate of twenty-five percent (25%) on November 11, 2014 and in 36 equal monthly installments thereafter.
- 6. This option vests over a four-year period, at a rate of twenty-five percent (25%) on January 1, 2015 and in 36 equal monthly installments thereafter.
- 7. This option vests over a four-year period, at a rate of twenty-five percent (25%) on January 4, 2017, and in 36 equal monthly installments.

8. This option vests over a four-year period, at a rate of twenty-five percent (25%) on July 4, 2017 and in 36 equal monthly installments thereafter.

Remarks:

/s/ Jason F. Cole, Attorney-in-Fact 07/07/2017

\*\* 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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