SEC Fo	orm 4
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## FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

## OMB APPROVAL 0005 000

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1. Name and Address of Reporting Person* Sullivan Eric (Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 150 SECOND STREET		n*	2. Issuer Name <b>and</b> Ticker or Trading Symbol bluebird bio, Inc. [BLUE]		tionship of Reporting Pers all applicable) Director	10% Owner	
		(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 07/19/2016	- X	Officer (give title below) Principal Accounti	Other (specify below) ng Officer	
(Street) CAMBRIDGE (City)	MA (State)	02141 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	idual or Joint/Group Filing Form filed by One Repo Form filed by More thar Person	orting Person	

### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Transaction Code (Instr.					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)		(1130.4)
Common Stock	07/19/2016		S		857(1)	D	\$45.4	4,656	D	
Common Stock	07/20/2016		<b>S</b> <sup>(2)</sup>		1,849	D	<b>\$</b> 44.8521 <sup>(3)</sup>	2,807	D	
Common Stock	07/20/2016		<b>S</b> <sup>(2)</sup>		101	D	<b>\$</b> 45.3351 <sup>(4)</sup>	2,706	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)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code ( 8)		of		6. Date Exerc Expiration Da (Month/Day/Y	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				

Explanation of Responses:

1. Shares were sold to cover tax withholding obligations incurred in connection with the vesting of Restricted Stock Units.

2. This sale reported in this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on May 5, 2016.

3. The range in prices for the transaction reported on this line was \$44.30 to \$45.30. The average weighted price was \$44.8521. 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. The range in prices for the transaction reported on this line was \$45.32 to \$45.35. The average weighted price was \$45.351. 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.

**Remarks:** 

#### /s/ Jason F. Cole, Attorney-in-07/21/2016 **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.