

**FORM 4****UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

**OMB APPROVAL**

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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).

**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*			2. Issuer Name and Ticker or Trading Symbol		5. Relationship of Reporting Person(s) to Issuer (Check all applicable)	
<u>LYNCH DANIEL</u>  (Last) (First) (Middle) <u>C/O BLUEBIRD BIO, INC.</u> <u>60 BINNEY STREET</u>  (Street) <u>CAMBRIDGE MA 02142</u>  (City) (State) (Zip)			<u>bluebird bio, Inc. [ BLUE ]</u>  3. Date of Earliest Transaction (Month/Day/Year) <u>06/08/2017</u>  4. If Amendment, Date of Original Filed (Month/Day/Year)		<input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)  6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> 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. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	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			
Common Stock <sup>(1)</sup>	06/08/2017		A		1,400	A	\$0.00	2,800	D	
Common Stock	06/08/2017		M		2,500	A	\$2.0864	5,300	D	
Common Stock	06/08/2017		S <sup>(2)</sup>		2,500	D	\$110.195 <sup>(3)</sup>	2,800	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. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		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		Date Exercisable	Expiration Date					
Stock Option (right to buy)	\$111	06/08/2017		A		5,600	(4)	06/08/2027	Common Stock	\$0.00	5,600	D	
Stock Option (right to buy)	\$2.0864	06/08/2017		M		2,500	(5)	07/31/2021	Common Stock	\$0.00	4,508	D	

**Explanation of Responses:**

- These restricted stock units for common stock vest 100% on the earlier of June 8, 2018, or the date of the next annual meeting of stockholders.
- This sales reported in the Form 4 were effectd pursuant to a 10b5-1 trading plan adopted by the reporting person on December 14, 2016.
- The range of prices for the transaction reported on this line was \$110.00 to \$110.65. The average weighted price was \$110.1950. 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.
- This option vests 100% on the earlier of June 8, 2018, or the date of the next annual meeting of stockholders.
- This option vests over a four-year period in 48 equal monthly installments beginning on April 15, 2011

**Remarks:**

/s/ Jason F. Cole, Attorney-in-Fact 06/12/2017

\*\* 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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