FORM 4

obligations may continue. See Instruction 1(b).

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person* LYNCH DANIEL						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									ionship of Reporting all applicable) Director		10% Own		vner	
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC.						3. Date of Earliest Transaction (Month/Day/Year) 02/14/2017									Office below	r (give title)		Other (s	specify	
150 SECOND STREET						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) CAMBRIDGE MA 02141															Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City) (State) (Zip)					-										1 0130	''				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye						Execu if any	eemed tion Date, h/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 an			Benefic Owned		ies cially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)	
Common Stock 02/14/201						7			M		850	A	\$2.08	0864 2,		,250		D		
Common Stock 02/14/201					017	.7			S ⁽¹⁾		850	D	\$80.01	.0128(2)		1,400		D		
		Т	able I								sposed of , converti				wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	eemed tion Date, n/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 Exerc Expiration Di (Month/Day/\)		ate	7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		De Sed (Ins	Price of rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y [1]	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amoun or Numbe of Shares	r						
Stock Option (right to	\$2.0864	02/14/2017			M			850	(3)		07/13/2021	Common Stock	850		\$0.00	22,658		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 14, 2016.
- 2. The range of prices for the transaction reported on this line was \$80.00 to \$80.15. The average weighted price was \$80.0128. 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. 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-02/16/2017 **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.