FORM	4
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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).

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UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Washington, D.C. 20549

OMB APPROVAL

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

I have and Address of Reporting 1 croon		eporting Person [*]	2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]	5. Relationship of Reporting Person(s) to Issuer					
STREET	(First) D BIO, INC.,	(Middle) 150 SECOND	3. Date of Earliest Transaction (Month/Day/Year) 03/03/2014	(Che X X	ck all applicable) Director Officer (give title below) President a	10% Owner Other (specify below) and CEO			
(Street) CAMBRIDGE (City)	MA (State)	02141 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	(Che X Fo Fo	dividual or Joint/ eck Applicable Lin orm filed by One orm filed by More eporting Person	e) 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)	Transaction(A) or Disposed of (D)Code(Instr. 3, 4 and 5)(Instr. 8)					5. Amount of Securities Beneficially Owned	7. Nature of Indirect Beneficial Ownership				
			Code	v	Amount	(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)	or Indirect (I) (Instr. 4)	(Instr. 4)			
Common Stock	03/03/2014		S ⁽¹⁾		5,000	D	\$ 24.79 ⁽²⁾	314,318	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)	Code	Transaction of Code Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)		e 7. Title and Amount of Underlying Securities (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 of Derivative Security: 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 Option (right to buy)	\$ 24.47	03/03/2014		A		165,000		(3)	03/03/2024	Common Stock	165,000	\$0	165,000	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 October 15, 2013.

2. The range of prices for the transaction reported on this line was \$24.05 to \$25.40. The average weighted price was \$24.785. 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, at a rate of twenty-five percent (25%) on January 1, 2015 and in 36 equal monthly installments thereafter.

/s/ Linda C. Bain, Attorneyin-Fact 03/05/2014 ** 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.