

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* <u>Vasista Vittal</u>  (Last) (First) (Middle) C/O REGENXBIO INC. 9600 BLACKWELL ROAD, SUITE 210  (Street) ROCKVILLE MD 20850  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>REGENXBIO Inc. [ RGNX ]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>Chief Financial Officer</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>11/01/2018</u>	
4. If Amendment, Date of Original Filed (Month/Day/Year)		

**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	11/01/2018		M <sup>(1)</sup>		9,959	A	\$3.76	147,242	D	
Common Stock	11/01/2018		M <sup>(1)</sup>		9,718	A	\$13.09	156,960	D	
Common Stock	11/01/2018		S <sup>(1)</sup>		19,677	D	\$70.04 <sup>(2)</sup>	137,283	D	
Common Stock	11/02/2018		M <sup>(1)</sup>		32,908	A	\$13.09	170,191	D	
Common Stock	11/02/2018		M <sup>(1)</sup>		20,833	A	\$19.5	191,024	D	
Common Stock	11/02/2018		S <sup>(1)</sup>		53,741	D	\$70.26 <sup>(3)</sup>	137,283	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	(A)	(D)	Date Exercisable	Expiration Date						Title
Employee Stock Option (Right to Buy)	\$3.76	11/01/2018		M <sup>(1)</sup>			9,959	(4)	05/18/2025	Common Stock	9,959	\$0.00	20,041	D	
Employee Stock Option (Right to Buy)	\$13.09	11/01/2018		M <sup>(1)</sup>			9,718	(5)	01/27/2026	Common Stock	9,718	\$0.00	65,282	D	
Employee Stock Option (Right to Buy)	\$13.09	11/02/2018		M <sup>(1)</sup>			32,908	(5)	01/27/2026	Common Stock	32,908	\$0.00	32,374	D	
Employee Stock Option (Right to Buy)	\$19.5	11/02/2018		M <sup>(1)</sup>			20,833	(6)	01/03/2027	Common Stock	20,833	\$0.00	29,167	D	

**Explanation of Responses:**

1. This transaction was effected pursuant to a Rule 10b5-1 trading plan.
2. This transaction was executed in multiple trades at prices ranging from \$70.00 to \$70.26. The price reported above reflects the weighted average sale price. The reporting person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer full information regarding the number of shares and prices at which the transaction was effected.
3. This transaction was executed in multiple trades at prices ranging from \$70.00 to \$70.74. The price reported above reflects the weighted average sale price. The reporting person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer full information regarding the number of shares and prices at which the transaction was effected.
4. The previously granted option, representing a right to purchase a total of 30,000 shares, became exercisable as follows: 25% of the shares subject to this option vested on May 19, 2016, and the balance vests in equal monthly installments over the 36 months thereafter while the optionee provides continuous service to the Issuer.
5. The previously granted option, representing a right to purchase a total of 75,000 shares, became exercisable as follows: 25% of the shares subject to this option vested on January 28, 2017, and the balance vests in equal monthly installments over the 36 months thereafter while the optionee provides continuous service to the Issuer.
6. The previously granted option, representing a right to purchase a total of 50,000 shares, became exercisable as follows: 25% of the shares subject to this option vested on January 4, 2018, and the balance vests in equal monthly installments over the 36 months thereafter while the optionee provides continuous service to the Issuer.

**Remarks:**

/s/ Patrick J. Christmas as                      11/05/2018  
attorney-in-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.**