

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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

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|--|--|---|--|
| 1. Name and Address of Reporting Person* <u>Topper James N</u> (Last) (First) (Middle) <u>C/O FRAZIER HEALTHCARE PARTNERS</u> <u>601 UNION STREET, SUITE 3200</u> (Street) <u>SEATTLE WA 98101</u> (City) (State) (Zip) | 2. Date of Event Requiring Statement (Month/Day/Year) <u>01/25/2017</u> | 3. Issuer Name and Ticker or Trading Symbol <u>ANAPTYSBIO INC [ANAB]</u> | |
| | | 4. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below) | 5. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person |

Table I - Non-Derivative Securities Beneficially Owned

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|---|--|---|
|---------------------------------|---|--|---|

Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) | | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---|--|-----------------|---|----------------------------|--|--|---|
| | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | | | |
| Series B Preferred Stock | (1) | (1) | Common Stock | 1,428,571 | 0.00 | I | see footnote ⁽²⁾ |
| Series C Preferred Stock | (1) | (1) | Common Stock | 604,055 | 0.00 | I | see footnote ⁽²⁾ |
| Series C-1 Preferred Stock | (1) | (1) | Common Stock | 195,751 | 0.00 | I | see footnote ⁽²⁾ |
| Series D Preferred Stock | (1) | (1) | Common Stock | 733,740 | 0.00 | I | see footnote ⁽³⁾ |
| Series D Preferred Stock | (1) | (1) | Common Stock | 209,095 | 0.00 | I | see footnote ⁽⁴⁾ |
| Warrant to Purchase Series C Preferred Stock (right to buy) | (5) | 11/04/2018 | Series C Preferred Stock ⁽¹⁾ | 117,235 | 4.55 | I | see footnote ⁽²⁾ |

Explanation of Responses:

- Each share of Preferred Stock will be automatically converted into one (1) share of Common Stock, for no additional consideration, immediately prior to the consummation of the Issuer's initial public offering, and has no expiration date.
- Represents shares held by Frazier Healthcare V, L.P., an affiliate of Frazier Healthcare Partners. Dr. Topper is a General Partner of Frazier Healthcare Partners.
- Represents shares held by Frazier Healthcare VII, L.P., an affiliate of Frazier Healthcare Partners. Dr. Topper is a General Partner of Frazier Healthcare Partners.
- Represents shares held by Frazier Healthcare VII-A, L.P., an affiliate of Frazier Healthcare Partners. Dr. Topper is a General Partner of Frazier Healthcare Partners.
- This warrant is exercisable at any time.

Remarks:

/s/ James N. Topper by
Dominic Piscitelli, Attorney- 01/25/2017
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 5 (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.

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that the undersigned hereby constitutes and appoints Hamza Suria, Dominic Piscitelli, Ryan McRobert, Nanette Agustines and Winston Macaraeg, and each of them, as his or her true and lawful attorney-in-fact to:

(1) execute for and on behalf of the undersigned, in the undersigned's capacity as a representative of AnaptysBio, Inc. (the "Company"), any and all Form ID, or Form 3, 4 or 5 reports and any amendments thereto required to be filed by the undersigned in accordance with Section 16(a) of the Securities Exchange Act of 1934 (the "Exchange Act") and the rules thereunder with respect to transactions in the Company's securities;

(2) do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such Form ID, or Form 3, 4 or 5 report and any amendments thereto and timely file such report with the U.S. Securities and Exchange Commission and any stock exchange or similar authority; and

(3) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney in-fact, may be of benefit to, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by such attorney in-fact on behalf of the undersigned, pursuant to this Power of Attorney, shall be in such form and shall contain such terms and conditions as such attorney in-fact may approve in his or her discretion.

The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform each and every act and thing whatsoever requisite, necessary, and proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney-in-fact, or his or her substitute or substitutes, shall lawfully do or cause to be done by virtue of this Power of Attorney and the rights and powers herein granted. The undersigned acknowledges that no such attorney in-fact, in serving in such capacity at the request of the undersigned, is hereby assuming, nor is the Company hereby assuming, any of the undersigned's responsibilities to comply with Section 16 of the Exchange Act.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Form 3, 4 or 5 reports with respect to the undersigned's holdings of and transactions in securities issued by the Company, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys in-fact.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 21st day of January, 2017.

/s/ James N. Topper
James N. Topper