FORM 3

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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     Booth Bruce   | Requirin   | of Event<br>ng Statement<br>Day/Year)<br>2022 | 3. Issuer Name and Ticker or Trading Symbol Vigil Neuroscience, Inc. [ VIGL ]     |       |   |  |     |  |   |  |
|--|--|---|---|-------|---|--|-----|--|---|--|
| (Last) (First) (Middle) VIGIL NEUROSCIENCE, INC.   |  |   | Relationship of Reporting Issuer (Check all applicable)                           |       | Person(s) to                                  |  |     | 5. If Amendment, Date of Original Filed (Month/Day/Year)   |   |  |
| 1 BROADWAY, 7TH FLOOR, SUI<br>07-300  (Street)  CAMBRIDGE MA 02142  (City) (State) (Zip)                           | TE   |   | X Director Officer (give title below)   |       | 10% Owner<br>Other (specify<br>below)         |  | (Ch | 6. Individual or Joint/Group Filing (Check Applicable Line)  X Form filed by One Reporting Person Form filed by More than One Reporting Person |   |  |
| Table I - Non-Derivative Securities Beneficially Owned   |  |   |   |       |   |  |     |  |   |  |
| 1. Title of Security (Instr. 4)  |  |   | Beneficially Owned (Instr. 4) Form (D) or   |       | 3. Owne<br>Form: D<br>(D) or Ir<br>(I) (Instr | Direct Own                                     |     | ature of Indirect Beneficial<br>nership (Instr. 5)   |   |  |
| Common Stock   |  |   | 1,442,376   |       | I   | By Atlas Venture Fund XII, L.P. <sup>(1)</sup> |     |  |   |  |
| 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<br>Expiration Date<br>(Month/Day/Year) |   | 3. Title and Amount of Securities<br>Underlying Derivative Security<br>(Instr. 4) |       |   | 4.<br>Conversion<br>or Exercise                |     | 5.<br>Ownership<br>Form:   | 6. Nature of<br>Indirect Beneficial<br>Ownership (Instr.          |  |
|  | Date<br>Exercisable  | Expiration<br>Date                            | Title   |       | unt or<br>ber of<br>es                        | Price of<br>Derivative<br>Security             |     | Direct (D)<br>or Indirect<br>(I) (Instr. 5)  | 5)  |  |
| Series A Preferred Stock   | (2)  | (2)   | Common Stock  | 2,832 | 1,520   | (2)  |     | I  | By Atlas<br>Venture Fund<br>XII, L.P. <sup>(1)</sup>              |  |
| Series B Preferred Stock   | (2)  | (2)   | Common Stock  | 1,027 | 7,978   | (2)  |     | I  | By Atlas<br>Venture<br>Opportunity<br>Fund I, L.P. <sup>(3)</sup> |  |

## Explanation of Responses:

- 1. These shares are held directly by Atlas Venture Fund XII, L.P. ("Atlas Venture Fund XII"). The general partner of Atlas Venture Fund XII is Atlas Venture Associates XII, L.P. ("AVA XII LP"). Atlas Venture Associates XII, LLC ("AVA XII LLC") is the general partner of AVA XII LP. The Reporting Person is a member of AVA XII LLC and disclaims beneficial ownership of such securities held by Atlas Venture Fund XII, except to the extent of his pecuniary interest therein, if any.
- 2. These shares of Series A Preferred Stock and Series B Preferred Stock (collectively, the "Preferred Stock") are convertible into Common Stock on a one-for-2.7732 basis at the option of the holder, and will automatically convert into the number of shares shown in Column 3 immediately prior to the closing of the Issuer's initial public offering. The Preferred Stock has no expiration date.
- 3. The shares are held directly by Atlas Venture Opportunity Fund I, L.P. ("Atlas Venture Opportunity Fund I"). The general partner of Atlas Venture Opportunity Fund I is Atlas Venture Associates Opportunity I, L.P. ("AVAO I LP"). Atlas Venture Associates Opportunity I, LLC ("AVAO I LLC") is the general partner of AVAO I LP. The Reporting Person is a member of AVAO I LLC and disclaims beneficial ownership of such securities held by Atlas Venture Opportunity Fund I, except to the extent of his pecuniary interest therein, if any.

### Remarks:

Exhibit 24 - Power of Attorney

<u>/s/ Ommer Chohan,</u> <u>Attorney-in-Fact</u>

01/06/2022

\*\* Signature of Reporting

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.

#### LIMITED POWER OF ATTORNEY

The undersigned hereby constitutes and appoints Ommer Chohan the undersigned's true and lawful attorney-in- fact to:

- (1) execute for and on behalf of the undersigned, in the undersigned's capacity as officer and/or director of Vigil Neuroscience, Inc. (the "Company"), from time to time the following U.S. Securities and Exchange Commission ("SEC") forms: (i) Form ID, including any attached documents (such as Update Passphrase Authentication), to effect the assignment of codes to the undersigned to be used in the transmission of information to the SEC using the EDGAR System; (ii) Form 3, Initial Statement of Beneficial Ownership of Securities, including any attached documents; (iii) Form 4, Statement of Changes in Beneficial Ownership of Securities, including any attached documents; (iv) Form 5, Annual Statement of Beneficial Ownership of Securities in accordance with Section 16(a) of the Securities Exchange Act of 1934, as amended, and the rules thereunder, including any attached documents; (v) Schedules 13D and 13G; and (vi) amendments of each thereof, in accordance with the Securities Exchange Act of 1934, as amended, and the rules thereunder, including any attached documents;
- (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 3, 4 or 5, Schedule 13D or 13G, or any amendment(s) thereto and timely file such form(s) with the SEC and any securities exchange, national association 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 such attorney-in-fact's discretion.

The undersigned hereby grants to the attorney-in-fact, acting singly, full power and authority to do and perform any and every act and thing whatsoever requisite, necessary or 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 such attorney-in-fact's 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 the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not assuming, nor is the Company assuming, any of the undersigned's responsibilities to comply with Section 16 or Regulation 13D-G of the Securities Exchange Act of 1934, as amended. The undersigned hereby agrees to indemnify the attorneys-in-fact and the Company from and against any demand, damage, loss, cost or expense arising from any false or misleading information provided by the undersigned to the attorneys-in-fact.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file such forms 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. This Power of Attorney supersedes any prior power of attorney in connection with the undersigned's capacity as an officer and/or director of the Company. This Power of Attorney shall expire as to any individual attorney-in-fact if such attorney-in- fact ceases to be an employee of the Company.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of January 5, 2022.

| /s/ Bruce Booth |
|-----------------|
|                 |
| Signature       |
|                 |
|                 |
| Bruce Booth     |
| Bruce Bootii    |
|                 |

Print Name