
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549

FORM 8-A

**FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES
PURSUANT TO SECTION 12(b) OR (g) OF
THE SECURITIES EXCHANGE ACT OF 1934**

Vor Biopharma Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State of incorporation or organization)

81-1591163
(I.R.S. Employer Identification No.)

**100 Cambridgepark Drive
Suite 400
Cambridge, Massachusetts**
(Address of principal executive offices)

02140
(Zip Code)

Securities to be registered pursuant to Section 12(b) of the Act:

**Title of each class
to be so registered**
Common Stock, par value \$0.0001 per share

**Name of each exchange on which
each class is to be registered**
The Nasdaq Stock Market LLC

If this form relates to the registration of a class of securities pursuant to Section 12(b) of the Exchange Act and is effective pursuant to General Instruction A.(c) or (e), check the following box.

If this form relates to the registration of a class of securities pursuant to Section 12(g) of the Exchange Act and is effective pursuant to General Instruction A.(d) or (e), check the following box.

If this form relates to the registration of a class of securities concurrently with a Regulation A offering, check the following box.

Securities Act registration statement or Regulation A offering statement file number to which this form relates:
333-252175

Securities to be registered pursuant to Section 12(g) of the Act:
None

Item 1. Description of Registrant's Securities to be Registered.

A description of the common stock, par value \$0.0001 per share, of Vor Biopharma Inc., a Delaware corporation (the "**Registrant**"), to be registered hereunder is contained in the section titled "Description of Capital Stock" in the prospectus forming part of the Registrant's Registration Statement on Form S-1 (File No. 333-252175) initially filed with the Securities and Exchange Commission (the "**Commission**") on January 15, 2021, as subsequently amended from time to time (including the exhibits thereto, the "**Registration Statement**"), and is incorporated herein by reference. Any form of prospectus subsequently filed by the Registrant with the Commission pursuant to Rule 424(b) under the Securities Act of 1933, as amended, that constitutes part of the Registration Statement shall be deemed to be incorporated herein by reference.

Item 2. Exhibits.

Under the Instructions as to Exhibits with respect to Form 8-A, no exhibits are required to be filed because no other securities of the Registrant are registered on The Nasdaq Stock Market LLC and the securities registered hereby are not being registered pursuant to Section 12(g) of the Securities Exchange Act of 1934, as amended.

SIGNATURE

Pursuant to the requirements of Section 12 of the Securities Exchange Act of 1934, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereto duly authorized.

Vor Biopharma Inc.

Date: February 1, 2021

By: /s/ Robert Ang

Name: Robert Ang

Title: Chief Executive Officer