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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
WASHINGTON, DC 20549

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**FORM 8-A**

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

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**VECTOR ACQUISITION CORPORATION**

(Exact Name Of Registrant As Specified In Its Charter)

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Cayman Islands  
(State or other jurisdiction of  
incorporation or organization)

98-1550340  
(I.R.S. Employer  
Identification No.)

One Market Street  
Steuart Tower, 23rd Floor  
San Francisco, CA  
(Address of principal executive offices)

94105  
(Zip Code)

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

Title of each class  
to be so registered

Name of each exchange on which  
each class is to be registered

Units, each consisting of one Class A ordinary share, \$0.0001 par value, and one-third of one redeemable warrant

Nasdaq Capital Market

Class A ordinary shares included as part of the units

Nasdaq Capital Market

Redeemable warrants included as part of the units, each whole warrant exercisable for one Class A ordinary share at an exercise price of \$11.50

Nasdaq Capital Market

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 file number to which this form relates:  
333-248665

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

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

The description of the units, each consisting of one Class A ordinary share, \$0.0001 par value, and one-third of one redeemable warrant, the Class A ordinary shares and the redeemable warrants, each whole warrant exercisable for one Class A ordinary share at an exercise price of \$11.50 (subject to adjustment), of Vector Acquisition Corporation, a Cayman Islands exempted company, as set forth under the caption "Description of Securities" in the prospectus forming a part of the Registration Statement on [Form S-1, as originally filed with the Securities and Exchange Commission \(the "Commission"\) on September 8, 2020 \(Registration No. 333-248665\)](#), including exhibits, and as subsequently amended from time to time (the "Registration Statement"), is hereby incorporated by reference. In addition, all of the above-referenced descriptions included in any prospectus relating to the Registration Statement filed with the Commission pursuant to Rule 424(b) under the Securities Act of 1933, as amended, shall be deemed to be incorporated by reference herein.

**Item 2. Exhibits**

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

## SIGNATURES

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.

VECTOR ACQUISITION CORPORATION

Date: September 24, 2020

By: /s/ David Baylor

Name: David Baylor

Title: Chief Financial Officer