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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 12(g) OF THE  
SECURITIES EXCHANGE ACT OF 1934

**Plymouth Industrial REIT Inc.**

(Exact name of registrant as specified in its charter)

**Maryland**  
(State or Other Jurisdiction  
of Incorporation)

**001-38106**  
(Commission  
File Number)

**27-5466153**  
(I.R.S. Employer  
Identification No.)

**260 Franklin Street**  
**6th Floor**  
**Boston, MA 02110**  
(Address of Principal Executive Offices)  
(Zip Code)

**(617) 340-3814**  
(Registrant's Telephone Number, Including Area Code)  
Securities to be registered pursuant to Section 12(b) of the Act:

**Title of each class  
to be so registered**

**7.50% Series A Cumulative Redeemable Preferred Stock,  
\$0.01 par value per share**

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

**NYSE American**

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), 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), check the following box.

Securities Act registration statement file number to which this form relates: **333-220927**

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 7.50% Series A Cumulative Redeemable Preferred Stock, par value \$0.01 per share (the “Series A Preferred Stock”), of Plymouth Industrial REIT Inc. (the “Company”) included under the heading “Description of the Series A Preferred Stock” beginning on page 132 of the prospectus dated October 18, 2017 (the “Prospectus”) filed with the Securities and Exchange Commission pursuant to Rule 424(b) under the Securities Act of 1933, as amended, which constitutes a part of the Company’s Registration Statement on Form S-11 (File No. 333-220927), which was declared effective by the Securities and Exchange Commission on October 18, 2017, and other information relating to the Series A Preferred Stock under the headings “Description of Capital Stock” and “Material Provisions of Maryland Law and of Our Charter and Bylaws” in the Prospectus shall be deemed to be incorporated herein by reference.

**Item 2. Exhibits.**

<b>Exhibit No.</b>	<b>Description</b>
3.1	<a href="#">Second Articles of Amendment and Restatement of Plymouth Industrial REIT, Inc.</a> (incorporated by reference to Exhibit 3.1 to Amendment No. 2 to the Company’s Registration Statement on Form S-11 (File No. 333-196798) filed on September 11, 2014)
3.2	<a href="#">Second Amended and Restated Bylaws of the Company</a> (incorporated by reference to Exhibit 3.2 to the Company’s Current Report on Form 8-K (File No. 333-173048) filed on September 10, 2014)
3.3	<a href="#">Articles of Amendment of Plymouth Industrial REIT, Inc.</a> (incorporated by reference to Exhibit 3.3 to Amendment No. 8 to the Company’s Registration Statement on Form S-11 (File No. 333-19748) filed on June 1, 2017)
3.4	<a href="#">Articles Supplementary designating the terms of Plymouth Industrial REIT Inc. 7.50% Series A Cumulative Redeemable Preferred Stock</a> (incorporated by reference to Exhibit 3.1 to the Company’s Current Report on Form 8-K filed on October 23, 2017)

**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.

Date: October 23, 2017

**PLYMOUTH INDUSTRIAL REIT INC.**

By: /s/ Jeffrey Witherell

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Jeffrey Witherell

Chief Executive Officer

**EXHIBIT INDEX**

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