

**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**

REXFORD INDUSTRIAL REALTY, INC.

(Exact name of registrant as specified in its charter)

Maryland
(State or incorporation or organization)

46-2024407
(IRS Employer Identification No.)

**11620 Wilshire Boulevard, Suite 300
Los Angeles, CA**
(Address of Principal Executive Offices)

90025
(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 \$0.01 per share

Name of each exchange on which
each class is to be registered
New York Stock Exchange

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: 333-188806

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

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

The description of the common stock, par value \$0.01 per share, of Rexford Industrial Realty, Inc. (the “Registrant”) as included under the heading “Description of Stock” in the Registrant’s prospectus forming part of its Registration Statement on Form S-11, originally filed with the Securities and Exchange Commission (the “Commission”) on May 23, 2013 (File No. 333-188806) and as subsequently amended (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.

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 New York Stock Exchange 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, thereunto duly authorized, in the City of Los Angeles, State of California, on the 17th day of July, 2013.

Date: July 17, 2013

REXFORD INDUSTRIAL REALTY, INC.

By: /s/ MICHAEL S. FRANKEL

Name: Michael S. Frankel

Title: *Co-Chief Executive Officer*