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

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**FORM 8-K**

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**CURRENT REPORT**

**Pursuant to Section 13 or 15(d) of  
The Securities Exchange Act of 1934**

**Date of Report (Date of earliest event reported):  
May 12, 2016**

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**REXFORD INDUSTRIAL REALTY, INC.**  
(Exact name of registrant as specified in its charter)

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**Maryland**  
(State or other jurisdiction of  
incorporation)

**001-36008**  
(Commission File Number)

**46-2024407**  
(IRS Employer Identification No.)

**11620 Wilshire Boulevard, Suite 1000, Los Angeles, California**  
(Address of principal executive offices)

**90025**  
(Zip Code)

**Registrant's telephone number, including area code: (310) 966-1680**

N/A  
(Former name or former address, if changed since last report.)

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Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instructions A.2.):

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
  - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
  - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
  - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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**ITEM 8.01****OTHER EVENTS**

On May 12, 2016, the Company filed with the Securities and Exchange Commission a prospectus supplement pursuant to Rule 424(b) under the Securities Act of 1933, as amended, relating to the Company's existing at-the-market offering program pursuant to which the Company may issue and sell shares of the Company's common stock, \$0.01 par value per share, having an aggregate offering price of up to \$125,000,000, from time to time through Wells Fargo Securities, LLC, Merrill Lynch, Pierce, Fenner & Smith Incorporated, Citigroup Global Markets Inc. and J.P. Morgan Securities LLC, as the Company's sales agents (the "Agents"), pursuant to separate equity distribution agreements, dated April 17, 2015, as amended May 12, 2016, among the Company, Rexford Industrial Realty, L.P. and each of the Agents. The shares of the Company's common stock will be issued pursuant to the prospectus supplement and the Company's shelf registration statement on Form S-3 (File No. 333-210691), filed on April 11, 2016 with the Securities and Exchange Commission. The opinion of Venable LLP with respect to the validity of shares of the Company's common stock that may be offered and sold pursuant to the prospectus supplement and the accompanying prospectus are filed herewith as Exhibit 5.1.

This Current Report shall not constitute an offer to sell or the solicitation of an offer to buy nor shall there be any sale of these securities in any state in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such state.

**ITEM 9.01****FINANCIAL STATEMENTS AND EXHIBITS**

(d) Exhibits.

5.1 Opinion of Venable LLP

23.1 Consent of Venable LLP (contained in the opinion filed as Exhibit 5.1 hereto)

**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Rexford Industrial Realty, Inc.

May 12, 2016

/s/ Michael S. Frankel

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Michael S. Frankel  
Co-Chief Executive Officer  
(Principal Executive Officer)

Rexford Industrial Realty, Inc.

May 12, 2016

/s/ Howard Schwimmer

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Howard Schwimmer  
Co-Chief Executive Officer  
(Principal Executive Officer)

## EXHIBIT INDEX

<b>Exhibit Number</b>	<b>Description</b>
5.1	Opinion of Venable LLP
23.1	Consent of Venable LLP (contained in the opinion filed as Exhibit 5.1 hereto)

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May 12, 2016

Rexford Industrial Realty, Inc.  
11620 Wilshire Boulevard, Suite 1000  
Los Angeles, CA 90025

Re: Registration Statement on Form S-3  
Commission File No. 333-210691

Ladies and Gentlemen:

We have served as Maryland counsel to Rexford Industrial Realty, Inc., a Maryland corporation (the "Company"), in connection with certain matters of Maryland law arising out of the registration of the issuance and sale by the Company from time to time of shares (the "Shares") of the Company's common stock, \$0.01 par value per share (the "Common Stock"), having an aggregate offering price of up to \$124,992,850, covered by the above-referenced Registration Statement, and all amendments thereto (collectively, the "Registration Statement"), filed by the Company with the United States Securities and Exchange Commission (the "Commission") under the Securities Act of 1933, as amended (the "Securities Act").

In connection with our representation of the Company, and as a basis for the opinion hereinafter set forth, we have examined originals, or copies certified or otherwise identified to our satisfaction, of the following documents (hereinafter collectively referred to as the "Documents"):

1. The Registration Statement, substantially in the form in which it was filed with the Commission under the Securities Act;
2. The Company's Prospectus, dated April 11, 2016, as supplemented by the Company's Prospectus Supplement, dated May 12, 2016, each substantially in the form in which it was filed with the Commission pursuant to Rule 424(b) promulgated under the Securities Act;
3. The charter of the Company (the "Charter"), certified by the State Department of Assessments and Taxation of Maryland (the "SDAT");
4. The Bylaws of the Company, certified as of the date hereof by an officer of the Company;
5. A certificate of the SDAT as to the good standing of the Company, dated as of a recent date;

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6. Resolutions adopted by the Board of Directors of the Company (the "Board") and a duly authorized committee thereof relating to, among other matters, the registration and issuance of the Shares (the "Resolutions"), certified as of the date hereof by an officer of the Company;

7. A certificate executed by an officer of the Company, dated as of the date hereof; and

8. Such other documents and matters as we have deemed necessary or appropriate to express the opinion set forth below, subject to the assumptions, limitations and qualifications stated herein.

In expressing the opinion set forth below, we have assumed the following:

1. Each individual executing any of the Documents, whether on behalf of such individual or another person, is legally competent to do so.

2. Each individual executing any of the Documents on behalf of a party (other than the Company) is duly authorized to do so.

3. Each of the parties (other than the Company) executing any of the Documents has duly and validly executed and delivered each of the Documents to which such party is a signatory, and each such party's obligations set forth therein are legal, valid and binding and are enforceable in accordance with all stated terms.

4. All Documents submitted to us as originals are authentic. The form and content of all Documents submitted to us as unexecuted drafts do not differ in any respect relevant to this opinion from the form and content of such Documents as executed and delivered. All Documents submitted to us as certified or photostatic copies conform to the original documents. All signatures on all Documents are genuine. All public records reviewed or relied upon by us or on our behalf are true and complete. All representations, warranties, statements and information contained in the Documents are true and complete. There has been no oral or written modification of or amendment to any of the Documents, and there has been no waiver of any provision of any of the Documents, by action or omission of the parties or otherwise.

5. The Shares will not be issued or transferred in violation of any restriction or limitation contained in Article VI of the Charter.

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6. Upon the issuance of any Shares, the total number of shares of Common Stock issued and outstanding will not exceed the total number of shares of Common Stock that the Company is then authorized to issue under the Charter.

Based upon the foregoing, and subject to the assumptions, limitations and qualifications stated herein, it is our opinion that:

1. The Company is a corporation duly incorporated and existing under and by virtue of the laws of the State of Maryland and is in good standing with the SDAT.

2. The issuance of the Shares has been duly authorized and, when and if issued and delivered against payment therefor in accordance with the Registration Statement and the Resolutions and any other resolutions adopted by the Board or a duly authorized committee thereof relating thereto, the Shares will be validly issued, fully paid and nonassessable.

The foregoing opinion is limited to the laws of the State of Maryland and we do not express any opinion herein concerning any other law. We express no opinion as to compliance with any federal or state securities laws, including the securities laws of the State of Maryland, or as to federal or state laws regarding fraudulent transfers. To the extent that any matter as to which our opinion is expressed herein would be governed by the laws of any jurisdiction other than the State of Maryland, we do not express any opinion on such matter. The opinion expressed herein is subject to the effect of any judicial decision which may permit the introduction of parol evidence to modify the terms or the interpretation of agreements.

The opinion expressed herein is limited to the matters specifically set forth herein and no other opinion shall be inferred beyond the matters expressly stated. We assume no obligation to supplement this opinion if any applicable law changes after the date hereof or if we become aware of any fact that might change the opinion expressed herein after the date hereof.

This opinion is being furnished to you for submission to the Commission as an exhibit to the Company's Current Report on Form 8-K relating to the Shares (the "Current Report"). We hereby consent to the filing of this opinion as an exhibit to the Current Report and to the use of the name of our firm therein. In giving this consent, we do not admit that we are within the category of persons whose consent is required by Section 7 of the Securities Act.

Very truly yours,

/s/ Venable LLP

