

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

SOLAREEDGE TECHNOLOGIES, INC.

(Exact name of registrant as specified in its charter)

Delaware
(State of incorporation or organization)

20-5338862
(I.R.S. Employer Identification No.)

**1 HaMada Street
Herziliya Pituach 4673335, Israel**
(Address of principal executive offices)

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**

Common Stock, par value \$0.0001 per share

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), check the following box. x

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. o

Securities Act registration statement file number to which this form relates: **333-202159**

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 (the "Common Stock"), of SolarEdge Technologies, Inc., a Delaware corporation (the "Registrant"), is set forth under the caption "Description of Capital Stock" in the prospectus constituting a part of the Registrant's Registration Statement on Form S-1 (Registration No. 333-202159), initially filed with the Securities and Exchange Commission on February 18, 2015, as amended by any amendments to such Registration Statement, which description is incorporated herein by reference. The description of the Common Stock included in any form of prospectus subsequently filed by the Registrant pursuant to Section 424(b) of the Securities Act of 1933, as amended, shall also be deemed to be incorporated herein by reference.

Item 2. Exhibits

Pursuant to 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.

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.

SOLAREEDGE TECHNOLOGIES, INC.

Dated: March 24, 2015

By: /s/ Rachel Prishkolnik
Rachel Prishkolnik
Vice President, General Counsel & Corporate Secretary
