

SunEdison Semiconductor Ltd
Form 3/A
May 30, 2014

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,
Section 17(a) of the Public Utility Holding Company Act of 1935 or Section
30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person * SUNEDISON, INC. (Last) (First) (Middle) 501 PEARL DRIVE (CITY OF O'FALLON) (Street) ST. PETERS, MO 63376 (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) 05/21/2014	3. Issuer Name and Ticker or Trading Symbol SunEdison Semiconductor Ltd [SEMI]	4. Relationship of Reporting Person(s) to Issuer (Check all applicable) ☐ Director ☒ 10% Owner ☐ Officer ☐ Other (give title below) (specify below)	5. If Amendment, Date Original Filed(Month/Day/Year) 05/21/2014	6. Individual or Joint/Group Filing(Check Applicable Line) ☐ Form filed by One Reporting Person ☒ Form filed by More than One Reporting Person
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Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Ordinary Shares, no par value	23,560,251	I	See Footnote ⁽¹⁾

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1473 (7-02)

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Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)	3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) Title	4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
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Date Exercisable	Expiration Date	Amount or Number of Shares	or Indirect (I) (Instr. 5)
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Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
SUNEDISON, INC. 501 PEARL DRIVE (CITY OF O'FALLON) ST. PETERS, MO 63376	Â	Â X	Â	Â
SunEdison International, Inc. 501 PEARL DRIVE (CITY OF O'FALLON) ST. PETERS, MO 63376	Â	Â X	Â	Â

Signatures

/s/ Martin H. Truong,
Secretary

05/30/2014

__Signature of Reporting Person

Date

Explanation of Responses:

* If the form is filed by more than one reporting person, *see* Instruction 5(b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

(1) Consists of 23,560,251 ordinary shares directly owned by SunEdison International, Inc. ("SunEdison International") and indirectly owned by SunEdison, Inc., which as the direct parent of SunEdison International has shared voting and investment power over such shares.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure.

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