

SunEdison Semiconductor Ltd  
 Form 3  
 June 02, 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  
 \*  
 ^ Samsung Fine Chemicals Co.,  
 Ltd.

2. Date of Event Requiring Statement  
 (Month/Day/Year)  
 05/29/2014

3. Issuer Name and Ticker or Trading Symbol  
 SunEdison Semiconductor Ltd [SEMI]

(Last) (First) (Middle)

4. Relationship of Reporting Person(s) to Issuer

5. If Amendment, Date Original Filed(Month/Day/Year)

SAMSUNG FINE CHEMICALS  
 R&D BLDG., ^ 130  
 SAMSUNG-RO,  
 YEONGTONG-GU

(Street)

(Check all applicable)

\_\_\_ Director \_\_\_X\_\_\_ 10% Owner  
 \_\_\_ Officer \_\_\_ Other  
 (give title below) (specify below)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 \_\_\_X\_\_\_ Form filed by One Reporting Person  
 \_\_\_ Form filed by More than One Reporting Person

SUWON-SI,  
 GYEONGGI-DO, ^ M5 ^ 443-803

(City) (State) (Zip)

**Table I - Non-Derivative Securities Beneficially Owned**

| 1. Title of Security<br>(Instr. 4) | 2. Amount of Securities Beneficially Owned<br>(Instr. 4) | 3. Ownership Form:<br>Direct (D)<br>or Indirect (I)<br>(Instr. 5) | 4. Nature of Indirect Beneficial Ownership<br>(Instr. 5) |
|------------------------------------|--|---|--|
| Ordinary shares, no par value      | 7,200,000  | D   | ^  |

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<br>(Instr. 4) | 2. Date Exercisable and Expiration Date | 3. Title and Amount of Securities Underlying | 4. Conversion | 5. Ownership | 6. Nature of Indirect Beneficial Ownership |
|---|---|--|---------------|--------------|--|
|---|---|--|---------------|--------------|--|

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| (Month/Day/Year)    | Derivative Security<br>(Instr. 4) | or Exercise<br>Price of<br>Derivative<br>Security | Form of<br>Derivative<br>Security:<br>Direct (D)<br>or Indirect<br>(I)<br>(Instr. 5) | (Instr. 5) |
|---------------------|-----------------------------------|---|--|------------|
| Date<br>Exercisable | Expiration<br>Date                | Title   | Amount or<br>Number of<br>Shares   |            |

## Reporting Owners

| Reporting Owner Name / Address   | Relationships |           |         |       |
|--|---------------|-----------|---------|-------|
|  | Director      | 10% Owner | Officer | Other |
| Samsung Fine Chemicals Co., Ltd.<br>SAMSUNG FINE CHEMICALS R&D BLDG.,<br>130 SAMSUNG-RO, YEONGTONG-GU<br>SUWON-SI, GYEONGGI-DO, M5 443-803 | ^             | ^ X       | ^       | ^     |

## Signatures

/s/ Hee In Lee, Executive Vice  
President

06/02/2014

Date

\*\*Signature of Reporting Person

## 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.