UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| FORM 6-K | |
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REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16 UNDER THE SECURITIES EXCHANGE ACT OF 1934

For the month of September 2013

Commission File Number: 001-33107

CANADIAN SOLAR INC.

No. 199 Lushan Road Suzhou New District Suzhou, Jiangsu 215129 People's Republic of China (Address of principal executive office)

| Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40- | ·F. |
|--|--------------|
| Form 20-F ⊠ Form 40-F □ | |
| Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule | 101(b)(1): □ |
| Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule | 101(b)(7): □ |

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SIGNATURE

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

CANADIAN SOLAR INC.

By: /s/ Shawn (Xiaohua) Qu

Name: Shawn (Xiaohua) Qu Title: Chairman, President and

Chief Executive Officer

Date: September 11, 2013

EXHIBIT INDEX

Exhibit 99.1—Press Release



Canadian Solar Announces Completion of At-The-Market Offering of Common Shares

GUELPH, Ontario, September 11, 2013 — Canadian Solar Inc. (NASDAQ: CSIQ) (the "Company", or "Canadian Solar"), one of the world's largest solar power companies, today announced the completion of the Company's at-the-market offering of common shares previously announced on August 15, 2013.

Upon the completion of the offering, the Company had sold 3,772,254 of its common shares at an average price of \$13.25 per share, raising approximately \$50.0 million in gross proceeds. The common shares were offered through Credit Suisse as sales agent. The Company received net proceeds of approximately \$48.0 million from the offering after deducting the sales agent's commissions and estimated offering expenses. Canadian Solar intends to use the net proceeds from the offering for general corporate purposes, which may include solar power project development expenses and working capital.

The common shares were offered under the Company's existing shelf registration statement which has become effective. A prospectus supplement and a related base prospectus describing the terms of the offering have previously been filed with the Securities and Exchange Commission. A copy of the prospectus supplement and the base prospectus relating to these securities may be obtained from Credit Suisse Securities (USA) LLC, Attention: Prospectus Department, One Madison Avenue, New York, NY, 10010, by phone at (800) 221-1037, or by e-mail at newyork.prospectus@credit-suisse.com.

This press release does not constitute an offer to sell or a solicitation of an offer to buy any securities, nor will there be any sale of these securities in any state or jurisdiction in which such an offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such state or other jurisdiction.

About Canadian Solar Inc. (NASDAQ: CSIQ)

Founded in 2001 in Canada, Canadian Solar Inc. (NASDAQ: CSIQ) is one of the world's largest solar power companies. As a leading vertically integrated provider of solar modules, specialized solar products and solar power plants with operations in North America, South America, Europe, Africa, the Middle East, Australia and Asia, Canadian Solar has delivered more than 5GW of premium quality solar modules to customers in over 70 countries. Canadian Solar is committed to improve the environment and dedicated to providing advanced solar energy products, solutions and services to enable sustainable development around the world. For more information, please visit www.canadiansolar.com

Safe Harbor/Forward-Looking Statements

Certain statements made or incorporated by reference in this press release are forward-looking statements that involve a number of risks and uncertainties that could cause actual results to differ materially. These statements are made under the "Safe Harbor" provisions of the U.S. Private Securities Litigation Reform Act of 1995. In some cases, you can identify forward-looking statements by such terms as "believes," "expects," "anticipates," "intends," "estimates," the negative of these terms, or other comparable terminology. Factors that could cause actual results to differ include the risks regarding general business and economic conditions and the state of the solar industry; governmental support for the deployment of solar power; future available supplies of high-purity silicon; demand for end-use products by consumers and inventory levels of such products in the supply chain; changes in demand from significant customers; changes in demand in the Company project markets, including Canada and the Province of Ontario; changes in customer order patterns; capacity utilization; level of competition; pricing pressure and declines in average selling prices; delays in new product introduction; continued success in technological innovations and delivery of products with the features customers demand; utility-scale project approval process; delays in utility-scale project construction; shortage in supply of materials or capacity requirements; availability of financing; exchange rate fluctuations; litigation and other risks as described in the Company's SEC filings, including its annual report on Form 20-F filed on April 26, 2013 and the prospectus supplement filed on August 15, 2013. Although the Company believes that the expectations reflected in the forward looking statements are reasonable, it cannot guarantee future results, level of activity, performance, or achievements. Investors should not place undue reliance on these forward-looking statements. All information provided in this press release is as of today's