

Canadian Solar Inc.  
Form 6-K  
October 20, 2010

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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington D.C. 20549  
Form 6-K  
REPORT OF FOREIGN PRIVATE ISSUER  
PURSUANT TO RULE 13a-16 OR 15d-16 UNDER THE  
SECURITIES EXCHANGE ACT OF 1934  
For the month of October 2010  
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):

Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

Yes  No

If "Yes" is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b):

82-           N/A

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Signature

Exhibit Index

Exhibit 99.1 - Press Release

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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: October 20, 2010

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EXHIBIT INDEX

Exhibit 99.1 Press Release