Trina Solar LTD Form 6-K September 29, 2014

OuickLinks -- Click here to rapidly navigate through this document

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, DC 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 September 2014

Commission File Number: 001-33195

TRINA SOLAR LIMITED

No. 2 Tian He Road Electronics Park, New District Changzhou, Jiangsu 213031 People's Republic of China (Address of principal executive offices)

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 \circ Form 40-F \circ 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): \circ

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): o

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.

TRINA SOLAR LIMITED By: /s/ Jifan Gao

Name: Jifan Gao

Title: Chairman and Chief Executive Officer

Date: September 29, 2014

[Signature Page to Form 6-K]

Exhibit Index

Exhibit 99.1 Recent Developments, Summary Consolidated Financial and Operating Data, Management's Discussion and Analysis of Financial Condition and Results of Operations of the Registrant for the Six Months Ended June 30, 2013 and 2014

Exhibit 99.2 Unaudited Condensed Consolidated Financial Statements for the Six Months Ended June 30, 2013 and 2014

QuickLinks

SIGNATURE

Exhibit Index