

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 13D
(Amendment No. 4)*

Under the Securities Exchange Act of 1934

TerraForm Power, Inc.
(Name of Issuer)

Class A common stock, \$0.01 par value
(Title of Class of Securities)

88104R100
(CUSIP Number)

D. E. Shaw & Co., L.P.
Attn: Compliance Department
1166 Avenue of the Americas, 9th Floor
New York, NY 10036
212-478-0000

(Name, Address and Telephone Number of Person
Authorized to Receive Notices and Communications)

December 15, 2016
(Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of §§240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box: x

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Rule 240.13d-7 for other parties to whom copies are to be sent.

* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

SCHEDULE 13D

CUSIP No. 88104R100		
1	NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON D. E. Shaw Composite Holdings, L.L.C. FEIN 20-3816265	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP	(a) <input type="checkbox"/> (b) <input type="checkbox"/>
3	SEC USE ONLY	
4	SOURCE OF FUNDS (See Instructions) OO	
5	CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)	<input type="checkbox"/>
6	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTN PERSON WITH	7	SOLE VOTING POWER 0
	8	SHARED VOTING POWER 4,578,575
	9	SOLE DISPOSITIVE POWER 0
	10	SHARED DISPOSITIVE POWER 4,578,575
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 4,578,575	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)	<input type="checkbox"/>
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 5.0% ¹	
14	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) OO	

¹ The percentage set forth in Row 13 of this Cover Page is based on an aggregate number of 91,349,263 Common Shares (as defined herein) of the Issuer (as defined herein) outstanding as of November 30, 2016, based on information disclosed by the Issuer in a Quarterly Report on Amendment No. 1 to Form 10-Q for the quarterly period ended March 31, 2016, filed December 6, 2016.

CUSIP No. 88104R100		
1	NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON D. E. Shaw & Co., L.L.C. FEIN 13-3799946	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (See Instructions) AF	
5	CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e) <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER 0
	8	SHARED VOTING POWER 6,080,922
	9	SOLE DISPOSITIVE POWER 0
	10	SHARED DISPOSITIVE POWER 6,080,922
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 6,080,922	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 6.7% ²	
14	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) OO	

² The percentage set forth in Row 13 of this Cover Page is based on an aggregate number of 91,349,263 Common Shares (as defined herein) of the Issuer (as defined herein) outstanding as of November 30, 2016, based on information disclosed by the Issuer in a Quarterly Report on Amendment No. 1 to Form 10-Q for the quarterly period ended March 31, 2016, filed December 6, 2016.

CUSIP No. 88104R100		
1	NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON D. E. Shaw & Co., L.P. FEIN 13-3695715	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (See Instructions) AF	
5	CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e) <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER 0
	8	SHARED VOTING POWER 6,080,922
	9	SOLE DISPOSITIVE POWER 0
	10	SHARED DISPOSITIVE POWER 6,080,922
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 6,080,922	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 6.7% ³	
14	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) IA, PN	

³ The percentage set forth in Row 13 of this Cover Page is based on an aggregate number of 91,349,263 Common Shares (as defined herein) of the Issuer (as defined herein) outstanding as of November 30, 2016, based on information disclosed by the Issuer in a Quarterly Report on Amendment No. 1 to Form 10-Q for the quarterly period ended March 31, 2016, filed December 6, 2016.

CUSIP No. 88104R100		
1	NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON David E. Shaw	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (See Instructions) AF	
5	CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e) <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION United States	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER 0
	8	SHARED VOTING POWER 6,080,922
	9	SOLE DISPOSITIVE POWER 0
	10	SHARED DISPOSITIVE POWER 6,080,922
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 6,080,922	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 6.7% ⁴	
14	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) IN	

⁴ The percentage set forth in Row 13 of this Cover Page is based on an aggregate number of 91,349,263 Common Shares (as defined herein) of the Issuer (as defined herein) outstanding as of November 30, 2016, based on information disclosed by the Issuer in a Quarterly Report on Amendment No. 1 to Form 10-Q for the quarterly period ended March 31, 2016, filed December 6, 2016.

Introductory Note

This Amendment No. 4 to Schedule 13D is filed by and on behalf of each of the Reporting Persons to amend and supplement the Schedule 13D related to the Class A common stock, \$0.01 par value per share of TerraForm Power, Inc. (the "Issuer"), previously filed by the Reporting Persons with the SEC on August 25, 2016, as amended and supplemented by Amendment No. 1 to the Schedule 13D filed on October 14, 2016, Amendment No. 2 to the Schedule 13D filed on October 25, 2016 and Amendment No. 3 to the Schedule 13D filed on November 16, 2016 (as amended, the "Amended Schedule 13D"). Each capitalized term used and not defined herein shall have the meaning assigned to such term in the Amended Schedule 13D. Except as provided herein, each Item of the Amended Schedule 13D remains unchanged.

Item 4. Purpose of Transaction

Item 4 of Amendment No. 3 of the Amended Schedule 13D is hereby amended and restated as follows:

An affiliate of the Reporting Persons is evaluating various potential transactions with one or both of the Issuer and SunEdison, the controlling stockholder of the Issuer, which transaction could result in an affiliate of the Reporting Persons controlling or otherwise participating in the management and/or operations of the Issuer. Such transaction may also include a cash payment, advance, commitment, or other consideration from an affiliate of the Reporting Persons (possibly drawing on or co-investing with other equity or debt financing sources), which may be directly or indirectly used for general corporate purposes, the acquisition of the Issuer's and/or its affiliates' shares, either as a redemption or otherwise, the reduction of the Issuer's or its affiliates' indebtedness, or other designated or undesignated uses. In addition to such potential cash payment, advance, or commitment, an affiliate of the Reporting Persons is also contemplating the potential contribution of certain assets to the Issuer, which may be structured as a merger, consolidation, contribution or otherwise. An affiliate of the Reporting Persons may make a non-binding proposal with regard to any such transaction as part of the process currently being overseen by SunEdison, the Issuer, and their respective advisors to explore strategic alternatives involving the Issuer and/or SunEdison's stake in the Issuer. No final decision has been made with respect to such a proposal or the possible terms or conditions thereof, and there can be no assurance that any transaction will occur. The foregoing is subject to change at any time, and there can be no assurance that any affiliate of the Reporting Persons will take any of the actions set forth above.

Except as set forth above, none of the Reporting Persons currently has any plans or proposals that relate to or would result in any of the actions specified in clause (a) through (j) of Item 4 of Schedule 13D. The Reporting Persons and their affiliates expect to continue to evaluate their respective investments in the Issuer on a continuing basis, and in connection with such evaluation the Reporting Persons and/or their affiliates may in the future upon due consideration of all relevant factors formulate other purposes, plans or proposals regarding the Issuer or the Common Shares, or take any other actions that could involve one or more of the types of transactions or have one or more of the results described in paragraphs (a) through (j) of Item 4 of Schedule 13D.

Item 4 of the Amended Schedule 13D is hereby further amended and supplemented by adding the following:

On December 15, 2016, an affiliate of the Reporting Persons entered into a letter agreement (the "Confidentiality Agreement") with the Issuer and TerraForm Power, LLC (together with the Issuer, the "Terra Companies"), providing for the sharing of certain confidential information by the Terra Companies with an affiliate of the Reporting Persons in connection with the Issuer's strategic review process. Pursuant to the Confidentiality Agreement, an affiliate of the Reporting Persons agreed to, among other things and subject in each case to certain exceptions and for specified periods: (i) non-disclosure obligations; (ii) standstill obligations, subject to fall-away provisions permitting specified types of proposals by an affiliate of the Reporting Persons; and (iii) restrictions on soliciting and hiring certain employees and consultants of the Terra Companies and SunEdison, the controlling stockholder of the Issuer.

Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer.

Item 6 of the Amended Schedule 13D is hereby amended and supplemented to add the following:

The last paragraph of Item 4 in this Amendment No. 4 is incorporated into Item 6 of the Amended Schedule 13D by reference. Except as described in this Amendment No. 4 and the Amended Schedule 13D, the Reporting Persons and their affiliates are not currently parties to any other contracts, arrangements, understandings or relationships (legal or otherwise) with respect to any securities of the Issuer.

Item 7. Material to be filed as Exhibits

Exhibit 2 Power of Attorney, granted by David E. Shaw relating to D. E. Shaw & Co., Inc., in favor of the signatories hereto, among others, dated December 16, 2014.

Exhibit 3 Power of Attorney, granted by David E. Shaw relating to D. E. Shaw & Co. II, Inc., in favor of the signatories hereto, among others, dated December 16, 2014.

SIGNATURES

After reasonable inquiry and to the best of each of the undersigned's knowledge and belief, each of the undersigned, severally and not jointly, certifies that the information set forth in this statement is true, complete and correct. Powers of Attorney, dated December 16, 2014, granted by David E. Shaw in favor of Nathan Thomas, are attached hereto as Exhibits 2 and 3.

Dated: December 19, 2016

D. E. Shaw Composite Holdings, L.L.C.

By: /s/ Nathan Thomas

Nathan Thomas
Authorized Signatory

D. E. Shaw & Co., L.L.C.

By: /s/ Nathan Thomas

Nathan Thomas
Authorized Signatory

D. E. Shaw & Co., L.P.

By: /s/ Nathan Thomas

Nathan Thomas
Chief Compliance Officer

David E. Shaw

By: /s/ Nathan Thomas

Nathan Thomas
Attorney-in-Fact for David E. Shaw

Exhibit 2

POWER OF ATTORNEY
FOR CERTAIN REGULATORY FILINGS
INCLUDING CERTAIN FILINGS
UNDER THE SECURITIES EXCHANGE ACT OF 1934
AND THE INVESTMENT ADVISERS ACT OF 1940

I, David E. Shaw, hereby make, constitute, and appoint each of:

Anne Dinning,

Julius Gaudio,

John Liftin,

Maximilian Stone,

Nathan Thomas, and

Eric Wepsic,

acting individually, as my agent and attorney-in-fact, with full power of substitution, for the purpose of, from time to time, (i) executing in my name and/or my capacity as President of D. E. Shaw & Co., Inc. (acting for itself or as the general partner of D. E. Shaw & Co., L.P. and general partner, managing member, or manager of other entities, any of which in turn may be acting for itself or other entities) all documents, certificates, instruments, statements, other filings, and amendments to the foregoing (collectively, "documents") determined by such person to be necessary or appropriate to comply with any registration or regulatory disclosure requirements and/or ownership or control-person reporting requirements imposed by any United States or non-United States governmental or regulatory authority, including without limitation Form ADV, Forms 3, 4, 5, and 13F, and Schedules 13D and 13G required to be filed with the United States Securities and Exchange Commission, and (ii) delivering, furnishing, or filing any such documents to or with the appropriate governmental or regulatory authority. Any such determination shall be conclusively evidenced by such person's execution, delivery, furnishing, and/or filing of the applicable document.

This power of attorney shall be valid from the date hereof and replaces the power granted on June 22, 2012, which is hereby cancelled.

IN WITNESS HEREOF, I have executed this instrument as of the date set forth below.

Date: December 16, 2014

DAVID E. SHAW, as President of
D. E. Shaw & Co., Inc.
/s/ David E. Shaw
New York, New York

Exhibit 3

POWER OF ATTORNEY
FOR CERTAIN REGULATORY FILINGS
INCLUDING CERTAIN FILINGS
UNDER THE SECURITIES EXCHANGE ACT OF 1934
AND THE INVESTMENT ADVISERS ACT OF 1940

I, David E. Shaw, hereby make, constitute, and appoint each of:

Anne Dinning,

Julius Gaudio,

John Liftin,

Maximilian Stone,

Nathan Thomas, and

Eric Wepsic,

acting individually, as my agent and attorney-in-fact, with full power of substitution, for the purpose of, from time to time, (i) executing in my name and/or my capacity as President of D. E. Shaw & Co. II, Inc. (acting for itself or as the managing member of D. E. Shaw & Co., L.L.C. and general partner, managing member, or manager of other entities, any of which in turn may be acting for itself or other entities) all documents, certificates, instruments, statements, other filings, and amendments to the foregoing (collectively, "documents") determined by such person to be necessary or appropriate to comply with any registration or regulatory disclosure requirements and/or ownership or control-person reporting requirements imposed by any United States or non-United States governmental or regulatory authority, including without limitation Form ADV, Forms 3, 4, 5, and 13F, and Schedules 13D and 13G required to be filed with the United States Securities and Exchange Commission, and (ii) delivering, furnishing, or filing any such documents to or with the appropriate governmental or regulatory authority. Any such determination shall be conclusively evidenced by such person's execution, delivery, furnishing, and/or filing of the applicable document.

This power of attorney shall be valid from the date hereof and replaces the power granted on June 22, 2012, which is hereby cancelled.

IN WITNESS HEREOF, I have executed this instrument as of the date set forth below.

Date: December 16, 2014

DAVID E. SHAW, as President of
D. E. Shaw & Co. II, Inc.
/s/ David E. Shaw
New York, New York
