Enphase Energy, Inc. Form S-1MEF March 29, 2012

As filed with the Securities and Exchange Commission on March 29, 2012

Registration No. 333-

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM S-1 REGISTRATION STATEMENT

Under

The Securities Act of 1933

ENPHASE ENERGY, INC.

(Exact name of Registrant as specified in its charter)

Delaware (State or other jurisdiction of

3674 (Primary Standard Industrial 20-4645388 (I.R.S. Employer

incorporation or organization) Classification Code Number) Identification Number)

201 1st Street, Suite 100

Petaluma, California 94952

(707) 774-7000

(Address, including zip code, and telephone number, including area code, of Registrant s principal executive offices)

Paul B. Nahi

Chief Executive Officer

c/o Enphase Energy, Inc.

201 1st Street, Suite 100

Petaluma, California 94952

(707) 774-7000

 $(Name, address, including \ zip \ code, and \ telephone \ number, including \ area \ code, of \ agent \ for \ service)$

Copies to:

John H. Sellers Bruce K. Dallas

Cooley LLP Davis Polk & Wardwell LLP

3175 Hanover Street 1600 El Camino Real

Palo Alto, CA 94304 Menlo Park, CA 94025

(650) 843-5000 (650) 752-2000

Approximate date of commencement of proposed sale to the public: As soon as practicable after the effective date of this Registration Statement.

If any of the securities being registered on this form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, as amended (the Securities Act), check the following box."

If this form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. x 333-174925

If this form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering."

If this form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering."

If delivery of the prospectus is expected to be made pursuant to Rule 434, check the following box."

CALCULATION OF REGISTRATION FEE

Title of Each Class of	Amount to be	Proposed M	Proposed Maximum Aggregate	Amount of
Securities to be Registered	Registered (1)	Per Share (2)	Offering Price (2)	Registration Fee (3)
Common stock, \$0.00001 par value	1,951,515	\$6.00	\$11,709,090	\$1,341.86

- (1) Represents only the additional number of securities being registered. Does not include the securities that the Registrant previously registered on the Registration Statement on Form S-1 (File No. 333-174925).
- (2) Estimated solely for the purpose of calculating the amount of the registration fee in accordance with Rule 457(a) under the Securities Act of 1933, as amended.
- (3) The Registrant previously paid \$11,610 in connection with the filing of the Registration Statement on Form S-1 (Registration No. 333-174925) on June 15, 2011. Of that amount, \$6,709.31 was paid in connection with registering \$58,545,452 worth of its common stock. Pursuant to Rule 457(p) of the Securities Act, the remainder satisfies in full the amount due under this registration statement.

This registration statement shall become effective upon filing with the Commission in accordance with Rule 462(b) of the Securities Act of 1933, as amended.

INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

This Registration Statement is being filed with the Securities and Exchange Commission (the Commission) pursuant to Rule 462(b) under the Securities Act of 1933, as amended. This Registration Statement relates to the public offering of common stock of the Registrant contemplated by the Registration Statement on Form S-1, as amended (File No. 333-174925), originally filed by the Registrant on June 15, 2011 (the Prior Registration Statement), and is being filed for the sole purpose of registering additional securities of the same class as were included in the Prior Registration Statement. The contents of the Prior Registration Statement and all exhibits thereto are hereby incorporated by reference.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Petaluma, State of California, on the 29^{th} day of March, 2012.

ENPHASE ENERGY, INC.

By: /s/ Paul B. Nahi Paul B. Nahi

President and Chief Executive Officer

Pursuant to the requirements of the Securities Act of 1933, this Registration Statement has been signed by the following persons in the capacities and on the dates indicated:

Signature	Title	Date
/s/ Paul B. Nahi	President and Chief Executive Officer	March 29, 2012
Paul B. Nahi	(Principal Executive Officer)	
/s/ Sanjeev Kumar	Chief Financial Officer	March 29, 2012
Sanjeev Kumar	(Principal Financial and Accounting Officer)	
*	Director	March 29, 2012
Raghuveer R. Belur		
*	Director	March 29, 2012
Neal Dempsey		
*	Director	March 29, 2012
Steven J. Gomo		
*	Director	March 29, 2012
Benjamin Kortlang		
*	Director	March 29, 2012
Jameson J. McJunkin		
*	Director	March 29, 2012

Chong Sup Park

* Director March 29, 2012

Robert Schwartz

* Director March 29, 2012

Stoddard M. Wilson

*By: /s/ Paul B. Nahi

Paul B. Nahi

Attorney-in-Fact

The Power of Attorney granted by each director was filed as an exhibit to the Prior Registration Statement.

EXHIBIT INDEX

Exhibit

Number	Description
5.1	Opinion of Cooley LLP
23.1	Consent of Deloitte & Touche LLP, independent registered public accounting firm
23.2	Consent of Cooley LLP (included in Exhibit 5.1)
24.1*	Power of Attorney

^{*} Incorporated by reference from the Prior Registration Statement.