

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549

FORM 12b-25

NOTIFICATION OF LATE FILING

(Check One): Form 10-K Form 20-F Form 11-K Form 10-Q Form N-SAR Form N-CSR

For Period Ended: **June 30, 2014**

- Transition Report on Form 10-K
- Transition Report on Form 20-F
- Transition Report on Form 11-K
- Transition Report on Form 10-Q
- Transition Report on Form N-SAR

For the Transition Period Ended: _____

Read Instruction (or back page) before Preparing Form. Please Print or Type.
**Nothing in this form shall be construed to imply that the Commission
has verified any information contained herein.**

If the notification relates to a portion of the filing checked above, identify the item(s) to which the notification relates:

PART I -- REGISTRANT INFORMATION

Ener-Core, Inc.
Full Name of Registrant

Former Name if Applicable

9400 Toledo Way
Address of Principal Executive Office (*Street and Number*)

Irvine, California 92618
City, State and Zip Code

PART II -- RULES 12b-25(b) AND (c)

If the subject report could not be filed without unreasonable effort or expense and the registrant seeks relief pursuant to Rule 12b-25(b), the following should be completed. (Check box if appropriate)

- (a) The reasons described in reasonable detail in Part III of this form could not be eliminated without unreasonable effort or expense
- (b) The subject annual report, semi-annual report, transition report on Form 10-K, Form 20-F, 11-K or Form N-SAR or Form N-CSR, or portion thereof, will be filed on or before the fifteenth calendar day following the prescribed due date; or the subject quarterly report or transition report on Form 10-Q or subject distribution report on Form 10-D, or portion thereof, will be filed on or before the fifth calendar day following the prescribed due date; and
- (c) The accountant's statement or other exhibit required by Rule 12b-25(c) has been attached if applicable.

