

Mail Stop 3030

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

August 23, 2017

Via E-mail
James A. Simms
Chief Financial Officer
Vices Corporation

Vicor Corporation 25 Frontage Road

Andover, Massachusetts 01810

**Re:** Vicor Corporation

Form 10-K for the Fiscal Year Ended December 31, 2016

Filed March 7, 2017 File No. 000-18277

Dear Mr. Simms:

We have limited our review of your filing to the financial statements and related disclosures and have the following comments. In some of our comments, we may ask you to provide us with information so we may better understand your disclosure.

Please respond to these comments within ten business days by providing the requested information or advise us as soon as possible when you will respond. If you do not believe our comments apply to your facts and circumstances, please tell us why in your response.

After reviewing your response to these comments, we may have additional comments.

## Form 10-K for the Fiscal Year Ended December 31, 2016

## **Consolidated Financial Statements**

## Note 17. Segment Information, page 79

- 1. We note from pages 12 and 54 that international revenues approximated 60% in 2016. Revise this note in future filings to include the geographic information relating to revenues and long-lived assets required by ASC 280-10-50-41.
- 2. We note on pages 12 and 54 the discussion of the revenues you earned from your five largest customers in 2016. Please revise this note in future filings to include the information relating to your major customers, including identifying the segments reporting the revenues, as required by ASC 280-10-50-42.

James A. Simms Vicor Corporation August 23, 2017 Page 2

We remind you that the company and its management are responsible for the accuracy and adequacy of their disclosures, notwithstanding any review, comments, action or absence of action by the staff.

You may contact Dennis Hult at (202) 551-3618 or me at (202) 551-3671 with any questions.

Sincerely,

/s/ Martin James

Martin James Senior Assistant Chief Accountant Office of Electronics and Machinery