

ENANTA Pharmaceuticals



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IMPORTANT ANNUAL MEETING INFORMATION

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MR A SAMPLE
DESIGNATION (IF ANY)
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Using a **black ink** pen, mark your votes with an **X** as shown in this example. Please do not write outside the designated areas.



Annual Meeting Proxy Card

▼ PLEASE FOLD ALONG THE PERFORATION, DETACH AND RETURN THE BOTTOM PORTION IN THE ENCLOSED ENVELOPE. ▼

A Proposals — The Board of Directors recommends a vote FOR all the nominees listed and FOR Proposal 2.

1. To elect two Class II directors to serve until the 2018 Annual Meeting of Stockholders:

01 - George S. Golumbeski, Ph.D. 02 - Terry C. Vance

- Mark here to vote FOR all nominees
 Mark here to WITHHOLD vote from all nominees
 For All EXCEPT - To withhold authority to vote for any nominee(s), write the name(s) of such nominee(s) below.



2. To ratify the appointment of PricewaterhouseCoopers LLP as Enanta's independent registered public accounting firm for the 2015 fiscal year.

For Against Abstain

B Non-Voting Items

Change of Address — Please print new address below.

C Authorized Signatures — This section must be completed for your vote to be counted. — Date and Sign Below

Note: Please sign exactly as your name or names appear on this Proxy. When shares are held jointly, each holder should sign. When signing as executor, administrator, attorney, trustee or guardian, please give full title as such. If the signer is a corporation, please sign full corporate name by duly authorized officer, giving full title as such. If signer is a partnership, please sign in partnership name by authorized person.

Date (mm/dd/yyyy) — Please print date below.

Signature 1 — Please keep signature within the box.

Signature 2 — Please keep signature within the box.

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NOTICE OF INTERNET AVAILABILITY OF PROXY MATERIAL:

The Notice of Meeting, proxy statement and proxy card are available at the "Investors – Calendar of Events" section of our website at www.enanta.com.

▼ PLEASE FOLD ALONG THE PERFORATION, DETACH AND RETURN THE BOTTOM PORTION IN THE ENCLOSED ENVELOPE. ▼

ENANTA

Pharmaceuticals

Proxy — ENANTA PHARMACEUTICALS, INC.

ANNUAL MEETING OF STOCKHOLDERS

THIS PROXY IS BEING SOLICITED ON BEHALF OF THE BOARD OF DIRECTORS

The undersigned stockholder of Enanta Pharmaceuticals, Inc. hereby appoints Jay R. Luly, Paul J. Mellett and Nathaniel S. Gardiner, or any one of them, with full power of substitution in each, as proxies to cast all votes which the undersigned stockholder is entitled to cast at the annual meeting of stockholders (the "2015 Annual Meeting") to be held at 4:00 p.m., local time on Thursday, February 19, 2015, at the offices of Locke Lord LLP, 111 Huntington Avenue, Boston, Massachusetts 02199, and at any adjournments of the meeting, upon the matters set forth on the reverse side of this card. The undersigned stockholder hereby revokes any proxy or proxies heretofore given.

This proxy will be voted as directed by the undersigned stockholder. Unless contrary direction is given, this proxy will be voted FOR the election of the nominees listed in Proposal 1 and FOR ratification of the appointment of Enanta's independent registered public accounting firm as described in Proposal 2, and in accordance with the determination of a majority of the Board of Directors as to any other matter that may properly come before the meeting or any adjournment thereof. The undersigned stockholder may revoke this proxy at any time before it is voted by delivering to the Secretary either a written notice of revocation of the proxy or a duly executed proxy bearing a later date, or by attending the 2015 Annual Meeting and voting in person. The undersigned stockholder hereby acknowledges receipt of the Notice of Annual Meeting and Proxy Statement for the 2015 Annual Meeting.

If you receive more than one proxy card, please sign and return all cards in the accompanying envelope.

(CONTINUED AND TO BE DATED AND SIGNED ON REVERSE SIDE.)