

ENZO BIOCHEM INC
Form DEF 14A
November 23, 2016
UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, DC 20549

SCHEDULE 14A

Proxy Statement Pursuant to Section 14(a) of the Securities Exchange Act of 1934

Filed by the Registrant x

Filed by a Party other than the Registrant "

Check the appropriate box:

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Enzo Biochem, Inc.

(Name of Registrant as Specified in Its Charter)

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ENZO BIOCHEM, INC.

**527 Madison Avenue
New York, New York 10022**

NOTICE OF 2016 ANNUAL MEETING OF SHAREHOLDERS

To be held on January 5, 2017

To All Shareholders of Enzo Biochem, Inc.:

NOTICE IS HEREBY GIVEN that the 2016 Annual Meeting of Shareholders of Enzo Biochem, Inc., a New York corporation (the “Company”), will be held at The Yale Club of New York City, 50 Vanderbilt Avenue, New York, New York 10017, on January 5, 2017, at 9:00 a.m., New York City time (the “Annual Meeting”), for the following purposes:

1. to elect to the Company’s Board of Directors (the “Board”) as Class II Directors, Mr. Barry W. Weiner and Dr. Bruce I. A. Hanna, Ph.D., each to hold office for a term of three (3) years or until their respective successors have been duly elected and qualified;
2. to approve, in a nonbinding advisory vote, the compensation of the Company’s Named Executive Officers;
3. to ratify the Company’s appointment of EisnerAmper LLP to serve as the Company’s independent registered public accounting firm for the Company’s fiscal year ending July 31, 2017; and
4. to transact such other business as may properly come before the Annual Meeting or any adjournments or postponements thereof.

All shareholders are cordially invited to attend the Annual Meeting. Please note that you will be asked to present proof that you are a shareholder of the Company as well as valid picture identification, such as a driver’s license or passport, in order to attend the Annual Meeting. The use of cameras, recording devices and other electronic devices will be prohibited at the Annual Meeting.

Whether or not you plan to attend the Annual Meeting, and regardless of the number of shares of common stock you own, you are requested to sign, date and return the enclosed proxy card promptly. Any shareholder of record who submits a proxy card retains the right to revoke such proxy card by: (i) submitting a written notice of such revocation to the President of the Company so that it is received no later than 5:00 p.m. (New York City time) on January 4, 2017; (ii) submitting a duly signed proxy card bearing a later date than the previously signed and dated proxy card to the President of the Company so that it is received no later than 5:00 p.m. (New York City time) on January 4, 2017; or (iii) attending the Annual Meeting and voting in person thereat the shares represented by such proxy card. Attendance at the Annual Meeting will not, in and of itself, constitute revocation of a completed, signed and dated

proxy card previously returned. All such later-dated proxy cards or written notices revoking a proxy card should be sent to Enzo Biochem, Inc., 527 Madison Avenue, New York, New York 10022, Attention: Barry W. Weiner, President. If you hold shares in street name, you must contact the firm that holds your shares to change or revoke any prior voting instructions.

Please read carefully the enclosed Proxy Statement, which explains the proposals to be considered by you and acted upon at the Annual Meeting.

Your Board has fixed the close of business on November 15, 2016 as the record date for the determination of holders of record of the Company's common stock entitled to notice of, and to vote at, the Annual Meeting. A list of shareholders of record of the Company as of the record date will remain open for inspection during the Annual Meeting until the closing of the polls thereat.

If you have any questions about the procedures for admission to the Annual Meeting, please contact Investor Relations at (212) 583-0100.

November 15, 2016

By Order of the Board of Directors,

/s/ Barry W. Weiner
Barry W. Weiner
President, Chief Financial Officer, Principal
Accounting Officer, Treasurer and Director

ALL HOLDERS OF RECORD OF THE COMPANY'S COMMON STOCK (WHETHER THEY INTEND TO ATTEND THE ANNUAL MEETING OR NOT) ARE STRONGLY ENCOURAGED TO COMPLETE, SIGN, DATE AND RETURN PROMPTLY THE PROXY CARD ENCLOSED WITH THE ACCOMPANYING PROXY STATEMENT.

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ENZO BIOCHEM, INC.

PROXY STATEMENT

2016 ANNUAL MEETING OF SHAREHOLDERS

To be held on January 5, 2017

This Proxy Statement is being furnished to shareholders of record, as of November 15, 2016, of Enzo Biochem, Inc. (“Enzo”, “Enzo Biochem” or the “Company”), in connection with the solicitation of proxies by the Board of Directors of the Company (the “Board”) for the 2016 Annual Meeting of Shareholders to be held at The Yale Club of New York City, 50 Vanderbilt Avenue, New York, New York 10017, on January 5, at 9:00 a.m., New York City time (the “Annual Meeting”), and at any adjournments or postponements of the Annual Meeting, for the purposes stated in the accompanying Notice of 2016 Annual Meeting of Shareholders.

INFORMATION ABOUT THE 2016 ANNUAL MEETING

Q: Why did you send me this Proxy Statement?

A: We sent you this Proxy Statement and the enclosed proxy card because the Board is soliciting your proxy to vote at our 2016 Annual Meeting of Shareholders (the “Annual Meeting”) to be held on January 5, 2017 and at any postponements or adjournments of the Annual Meeting. This Proxy Statement summarizes information that is intended to assist you in making an informed vote on the proposals described in this Proxy Statement.

Q: Who can vote at the Annual Meeting?

A: Only shareholders of record as of the close of business on November 15, 2016 (the “Record Date”) are entitled to vote at the Annual Meeting. On that date, there were 46,279,787 shares of our common stock outstanding and entitled to vote.

Q: How many shares must be present to conduct the Annual Meeting?

A: We must have a “quorum” present in person or by proxy to hold the Annual Meeting. A quorum is a majority of the outstanding shares entitled to vote as of the Record Date. Abstentions and broker non-votes (defined below) will be counted for the purpose of determining the existence of a quorum.

Q: What matters are to be voted upon at the Annual Meeting?

A: Three proposals are scheduled for a vote:

Election of Barry W. Weiner and Bruce A. Hanna, Ph.D., the Company nominees, as Class II Directors of the Company's Board of Directors;

Approval, on an advisory basis, of the compensation of the Company's Named Executive Officers;

Ratification of the selection of EisnerAmper LLP as our independent registered public accounting firm for the fiscal year ending July 31, 2017.

As of the date of this Proxy Statement, our Board does not know of any other business to be presented at the Annual Meeting. If other business is properly brought before the Annual Meeting, the persons named on the enclosed proxy card will vote on these other matters in their discretion.

Q: How does the Board recommend that I vote?

A: The Board recommends that you vote:

1. **FOR** the election of each of Barry W. Weiner and Bruce A. Hanna, Ph.D. who are the director nominees of the Company;

2. **FOR** the proposal to approve (on an advisory basis) the compensation of the Company's Named Executive Officers; and

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3. **FOR** the proposal to ratify the selection of EisnerAmper LLP as our independent registered public accounting firm for the fiscal year ending July 31, 2017.

Q: How do I vote before the Annual Meeting?

You may vote your shares by mail by filling in, signing, dating and returning the enclosed proxy card or voting instruction form you receive from your broker. For your convenience, you may also vote your shares by telephone or via Internet by following the instructions on the enclosed proxy card or your voting instruction form. If you vote by telephone or via the Internet, you do not need to return your proxy card or voting instruction form. With respect **A:** to the election of directors, you may vote “FOR” all the nominees to the Board of Directors of the Company, you may withhold authority to vote for any nominee you specify and you may withhold authority to vote for all of the nominees as a group. For the advisory vote on the compensation of the Company’s Named Executive Officers and the ratification of the selection of EisnerAmper LLP as our independent registered public accounting firm for the fiscal year ending July 31, 2017, you may vote “FOR” or “AGAINST” or abstain from voting.

Q: May I vote at the Annual Meeting?

Yes, you may vote your shares at the Annual Meeting if you attend in person and are the shareholder of record. **A:** Even if you plan to attend the Annual Meeting in person, we recommend that you also submit your proxy or voting instructions as described above, or as directed by your broker if you hold your shares through a broker, so that your vote will be counted if you later decide not to attend the Annual Meeting in person.

Q: What is the difference between holding shares as a shareholder of record and as a beneficial owner?

If your shares are registered in your name on the Company’s books and records or with our transfer agent, American Stock Transfer & Trust Company, you are the “shareholder of record” of those shares and this Notice of Annual Meeting and Proxy Statement and any accompanying documents have been provided directly to you by us. In contrast, if you purchased your shares through a brokerage or other financial intermediary, the brokerage or other **A:** financial intermediary will be the “shareholder of record” of those shares. Generally, when this occurs, the brokerage or other financial intermediary will automatically put your shares into “street name,” which means that the brokerage or other financial intermediary will hold your shares in its name or another nominee’s name and not in your name, but will keep records showing you as the real or “beneficial owner.” If you hold shares beneficially in street name, this Notice of Annual Meeting and Proxy Statement and any accompanying documents have been forwarded to you by your broker, bank or other holder of record.

Q: How do I vote if my bank or broker holds my shares in “street name”?

A: If you hold shares beneficially in street name, you may vote by submitting the enclosed voting instruction form. Telephone and Internet voting may be available—please refer to the voting instruction card provided by your broker.

Q: What should I do if I receive more than one proxy card or other set of proxy materials from the Company?

A: If you hold your shares in multiple accounts or registrations, or in both registered and street name, you will receive a proxy card for each account. Please sign, date and return all proxy cards you receive from the Company. If you choose to vote by phone or by Internet, please vote once for each proxy card you receive. Only your latest dated proxy for each account will be voted.

Q: How many votes do I have?

A: Each share of common stock that you own as of the close of business on the Record Date (November 15, 2016) entitles you to one vote on each matter voted upon at the Annual Meeting. As of the close of business on the

Record Date, there were 46,279,787 shares of our common stock outstanding.

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Q: May I change my vote?

Yes, you may change your vote or revoke your proxy at any time before the vote at the Annual Meeting by: (i) submitting a written notice of such revocation to the President of the Company so that it is received no later than 5:00 p.m. (New York City time) on January 4, 2017; (ii) submitting a duly signed proxy card bearing a later date than the previously signed and dated proxy card to the President of the Company so that it is received no later than 5:00 p.m. (New York City time) on January 4, 2017; or (iii) attending the Annual Meeting and voting in person thereat the shares represented by such proxy card. All such later-dated proxy cards or written notices revoking a proxy card should be sent to Enzo Biochem, Inc., 527 Madison Avenue, New York, New York 10022, Attention: Barry W. Weiner, President. If you hold shares in street name, you must contact the firm that holds your shares to

A: change or revoke any prior voting instructions by: (i) submitting a written notice of such revocation to the President of the Company so that it is received no later than 5:00 p.m. (New York City time) on January 4, 2017; (ii) submitting a duly signed proxy card bearing a later date than the previously signed and dated proxy card to the President of the Company so that it is received no later than 5:00 p.m. (New York City time) on January 4, 2017; or (iii) attending the Annual Meeting and voting in person thereat the shares represented by such proxy card. All such later-dated proxy cards or written notices revoking a proxy card should be sent to Enzo Biochem, Inc., 527 Madison Avenue, New York, New York 10022, Attention: Barry W. Weiner, President. If you hold shares in street name, you must contact the firm that holds your shares to change or revoke any prior voting instructions. Attendance at the meeting will not by itself revoke a previously granted proxy.

Q: How are my shares voted if I submit a proxy card but do not specify how I want to vote?

If you submit a properly executed proxy card but do not specify how you want to vote, your shares will be voted

A: “FOR” the election of each of the Company’s nominees for director; “FOR” advisory approval of the compensation of the Company’s Named Executive Officers; and “FOR” the ratification of the selection of EisnerAmper LLP as our independent registered public accounting firm for the fiscal year ending July 31, 2017. If you hold your shares beneficially, such as through a broker, and not of record, see the question above titled “How do I vote if my bank or broker holds my shares in “street name”?” and immediately below.

Q: Will my shares be voted if I don’t provide instructions to my broker?

If you are the beneficial owner of shares held in “street name” by a broker, you must instruct your broker how to vote your shares. If you do not provide voting instructions at least ten days prior to the Annual Meeting date, your broker will be entitled to vote the shares with respect to “discretionary” items but will not be permitted to vote the

A: shares with respect to “non-discretionary” items (we refer to the latter case as a broker non-vote). In the case of a broker non-vote, your broker can register your shares as being present at the Annual Meeting for purposes of determining the presence of a quorum, but will not be able to vote on those matters for which specific authorization is required under the rules of the New York Stock Exchange (NYSE).

Under NYSE rules, the proposal to elect directors and the advisory vote relating to executive compensation are non-discretionary matters for which specific instructions from beneficial owners are required. The proposal to ratify the appointment of EisnerAmper LLP as our independent registered public accounting firm for the fiscal year ending July 31, 2017 is a non-discretionary item. As a result, your broker will not be allowed to vote with respect to the election of directors or the proposal to approve (on an advisory basis) the compensation of the Company’s Named Executive, on your behalf if you do not provide your broker with specific voting instructions on the proposals, but it will be able to vote on the proposal to ratify EisnerAmper LLP’s appointment as our independent registered public accounting firm.

Your vote is important and we strongly encourage you to vote your shares by following the instructions provided on the enclosed voting instruction form. Please vote promptly.

Q: What vote is required to elect directors?

As provided in the Company's Bylaws, directors will be elected on a plurality basis. This means that the two candidates receiving the highest number of "FOR" votes will be elected. A properly executed proxy card marked **A: "WITHHOLD"** with respect to the election of a director nominee will be counted for purposes of determining if there is a quorum at the Annual Meeting, but will not be considered to have been voted for or against the director nominee. Withhold votes and broker non-votes will have no effect on the outcome of the election.

Q: What vote is required to approve, on an advisory basis, the compensation of the Company's Named Executive Officers?

This matter is being submitted to enable shareholders to approve, on an advisory basis, the compensation of the **A: Company's Named Executive Officers.** In order to be approved on an advisory basis, this proposal must receive the "FOR" vote of a majority of the shares present in person or by proxy and entitled to vote

on the matter. Abstentions will have the same effect as a vote against the proposal. Broker non-votes will have no effect on this proposal as brokers are not entitled to vote on such proposals in the absence of voting instructions from the beneficial owner.

Q: What vote is required to ratify the selection of EisnerAmper LLP as Enzo Biochem’s independent registered public accounting firm for the fiscal year ending July 31, 2017?

A: For approval of this proposal, the proposal must receive the “FOR” vote of a majority of the shares present in person or by proxy and entitled to vote on the matter. Abstentions will have the same effect as a vote against the proposal. Broker non-votes will have no effect on this proposal as brokers are not entitled to vote on this proposal in the absence of voting instructions from the beneficial owner.

Q: Who will count the votes?

A: Votes will be counted by an independent inspector of election appointed for the Annual Meeting by the Chairman of the Annual Meeting.

Q: Do shareholders have any appraisal or dissenters’ rights on the matters to be voted on at the Annual Meeting?

A: No, shareholders of the Company will not have rights of appraisal or similar dissenters’ rights with respect to any of the matters identified in this Proxy Statement to be acted upon at the Annual Meeting.

Q: What do I need for admission to the Annual Meeting?

A: Attendance at the Annual Meeting or any adjournment or postponement thereof will be limited to record and beneficial holders of Common Stock as of the Record Date, individuals holding a valid proxy from a record holder, and other persons authorized by the Company. If you are a shareholder of record, your name will be verified against the list of shareholders of record prior to your admittance to the Annual Meeting or any adjournment or postponement thereof. You should be prepared to present photo identification for admission. If you hold your shares in street name, you will need to provide proof of beneficial ownership on the Record Date, such as a brokerage account statement showing that you owned our stock as of the Record Date, a copy of a voting instruction form provided by your broker, bank or other nominee, or other similar evidence of ownership as of the Record Date, as well as your photo identification, for admission. If you do not provide photo identification or comply with the other procedures described above upon request, you will not be admitted to the Annual Meeting or any adjournment or postponement thereof. For security reasons, you and your bags will be subject to search prior to your admittance to the Annual Meeting.

Q: How can I find out the results of the voting at the Annual Meeting?

A: We will announce results promptly once they are available and will report final results in a filing with the Securities and Exchange Commission (“SEC”) on Form 8-K.

Q: What is “householding” and how does it work?

A: Some brokers and other nominee record holders may be participating in the practice of “householding” this Proxy Statement and other proxy materials. This means that only one copy of this Proxy Statement and other proxy materials may have been sent to multiple shareholders in a shareholder’s household. The Company will promptly deliver additional copies of the Proxy Statement and other proxy materials to any shareholder who contacts (i) the Company’s principal corporate office at 527 Madison Avenue, New York, New York 10022, Attention: Investor Relations or at (212) 583-0100 requesting such additional copies or (ii) Okapi, the Company’s proxy solicitor, at

(877) 629-6356. If a shareholder is receiving multiple copies of the Proxy Statement and other proxy materials at the shareholder's household and would like to receive only a single copy of the Proxy Statement and other proxy materials for a shareholder's household in the future, such shareholder should contact their broker, other nominee record holder, or the Company's investor relations department to request the future mailing of only a single copy of the Company's Proxy Statement and other proxy materials.

IMPORTANT NOTICE REGARDING AVAILABILITY OF PROXY MATERIALS

This Proxy Statement, the form of proxy card, our 2016 Annual Report to Shareholders and our Annual Report on Form 10-K for our fiscal year ended July 31, 2016, are available to you on our website at www.enzo.com. Shareholders may also obtain a copy of these materials by writing to Enzo Biochem, Inc., 527 Madison Avenue, New York, New York 10022, Attention: Barry W. Weiner, President. Upon payment of a reasonable fee, shareholders may also obtain a copy of the exhibits to our Annual Report on Form 10-K for our fiscal year ended July 31, 2016.

THE 2016 ANNUAL MEETING

Who is Entitled to Vote at the Annual Meeting

Only holders of record of the Company's common stock, par value \$.01 per share (the "Common Stock"), as of the close of business on November 15, 2016 (the "Record Date") are entitled to notice of, and to vote at, the Annual Meeting. On the Record Date there were issued and outstanding 46,279,787 shares of Common Stock. Each outstanding share of Common Stock is entitled to one (1) vote upon all matters to be acted upon at the Annual Meeting.

How You May Vote

If you are a holder of record of Common Stock as of the Record Date, you may vote by completing, signing, dating and returning the enclosed proxy card by mail. To vote by using the enclosed proxy card, mark your selections on the enclosed proxy card, date the proxy card and sign your name exactly as it appears on your proxy card, and return your proxy card by mail to Vote Processing, c/o Broadridge, 51 Mercedes Way, Edgewood, New York 11717.

If you are a holder of record of Common Stock as of the Record Date, you may also vote via the Internet or via telephone. The website for Internet voting is www.proxyvote.com. As with telephone voting, you can confirm that your instructions have been properly recorded. If you vote via the Internet, you also can request electronic delivery of future proxy materials. If you vote via the Internet, please note that there may be costs associated with electronic access, such as usage charges from Internet access providers and telephone companies, for which you will be responsible. You can vote by calling the toll-free telephone number on your proxy card. Easy-to-follow voice prompts allow you to vote your shares and confirm that your instructions have been properly recorded.

If you are a holder of record of Common Stock as of the Record Date, you may also vote by attending the Annual Meeting and voting thereat in person. Votes at the Annual Meeting will be taken by written ballot. At the commencement of the Annual Meeting, we will distribute a written ballot to any shareholder of record who attends the Annual Meeting and wishes to vote thereat in person.

If your shares are held in "street name," whether through a broker, bank or other nominee, only they can sign a proxy card with respect to your shares. You are therefore urged to contact the person responsible for your account and give them instructions for how to complete a proxy card representing your shares so that it can be timely returned on your behalf. You also should confirm in writing your instructions to the person responsible for your account and provide a copy of those instructions to us so that we can attempt to ensure that your instructions are followed. If you wish instead to vote in person at the Annual Meeting, you must obtain a valid proxy from your broker, bank or other nominee.

If you are a holder of record of Common Stock as of the Record Date and plan to attend the Annual Meeting, please be sure to bring with you valid government-issued personal identification with a picture (such as a driver's license or passport) in order to gain admission to the meeting. If your shares are held in "street name" through a bank, broker or other nominee, you will have to bring evidence of your beneficial ownership of Common Stock as of the Record Date, in addition to valid government-issued personal identification, if you wish to attend the meeting. Examples of proof of Common Stock ownership include: a signed letter from your bank or broker stating that you owned your shares as of the Record Date; a brokerage account statement indicating that you owned your shares as of the Record Date; or a copy of the voting instruction card provided by your broker indicating that you owned your shares as of the Record Date. If you are a proxy holder for a holder of record of Common Stock as of the Record Date, then you must also bring the validly executed proxy naming you as the proxy holder, signed by the shareholder of record who owned such shares of Common Stock as of the Record Date.

If you have any questions about the procedures for admission to the Annual Meeting, please contact Investor Relations at (212) 583-0100. Please see "Revocation of Proxies" below for a discussion of how to revoke your proxy.

Quorum; Vote Required

The holders of a majority of the outstanding shares of Common Stock as of the Record Date must be present, in person or represented by proxy, at the Annual Meeting to constitute a quorum for the transaction of business at the Annual Meeting. Abstentions and “broker non-votes” (described below) will be counted for purposes of determining whether there is a quorum for the transaction of business at the Annual Meeting.

The election of a nominee for Director (Proposal 1) requires a plurality of votes cast. This means that so long as a quorum is present, in person or represented by proxy, at the Annual Meeting for the transaction of business, the candidates receiving the most affirmative votes “FOR” his or her election will be elected to serve as a Class II Director of the Company. Shareholders may either vote “FOR” or “WITHHOLD AUTHORITY” to vote for the Director-nominees. A properly executed proxy card marked “WITHHOLD AUTHORITY” and broker non-votes with respect to a Director-nominee will not be voted with respect to the election of that Director-nominee, although they will be counted for purposes of determining whether there is a quorum present at the Annual Meeting for the transaction of business. As a result, such votes will have no effect on the Director election since only votes “FOR” a nominee will be counted.

The approval of Proposal 2 will require the affirmative vote of a majority of the votes cast by holders of shares of Common Stock present, in person or represented by proxy, at the Annual Meeting and entitled to vote on such proposal. Shareholders may either vote “for,” “against” or “abstain” with respect to Proposal 2. While our Board intends to carefully consider the stockholder vote resulting from Proposal 2, the vote is not binding on us and is advisory in nature. Under the rules of the New York Stock Exchange (“NYSE”), abstentions will be counted as “votes cast” and will have the same effect as a vote “against” for the purpose of determining whether a majority of the votes cast have been voted “for” Proposal 2. Broker non-votes will not be counted as “votes cast” on Proposal 2 and will have no effect on the outcome of the vote with respect to Proposal 2.

The ratification and approval of Proposal 3 will require the affirmative vote of a majority of the votes cast by holders of shares of Common Stock present, in person or represented by proxy, at the Annual Meeting and entitled to vote on such proposal. Shareholders may either vote “for,” “against” or “abstain” with respect to Proposal 3. Under the rules of the NYSE, abstentions will be counted as “votes cast” and will have the same effect as a vote “against” for the purpose of determining whether a majority of the votes cast have been voted “for” Proposal 3. Broker non-votes will not be counted as “votes cast” on Proposal 3 and will have no effect on the outcome of the vote with respect to Proposal 3.

If you hold your shares (i.e., they are registered) through a bank, broker or other nominee in “street name” but you do not provide the firm that holds your shares with your specific voting instructions, it will only be allowed to vote your shares on your behalf in its discretion on “routine” matters, but it cannot vote your shares in its discretion on your behalf on any “non-routine” matters. Under the applicable rules of the NYSE, at the Annual Meeting, Proposal 1 relating to the election of Directors and Proposal 2 relating to the nonbinding advisory vote on the Company’s executive compensation are considered “non-routine” matters, and Proposal 3 relating to the appointment of the Company’s independent registered public accounting firm for our fiscal year ending July 31, 2017 is considered a “routine” matter. Therefore, you must give specific instructions to your broker for your shares to be voted on the election of Directors

(Proposal 1) and the nonbinding advisory vote on the Company's executive compensation (Proposal 2) at the Annual Meeting.

If you do not give specific instructions to your broker how to vote your shares on your behalf with respect to the election of Directors at the Annual Meeting (Proposal 1) or the nonbinding advisory vote on the Company's executive compensation (Proposal 2) prior to the 10th day prior to the Annual Meeting, your broker will have no discretionary authority to vote your shares on your behalf with respect to the election of Directors at the Annual Meeting or the nonbinding advisory vote on the Company's executive compensation. Such "uninstructed" shares are commonly referred to as "broker non-votes". With respect to Proposal 3, your broker will have discretionary authority to vote your uninstructed shares "for", or "against", or to "abstain" from voting, on the ratification of the appointment of the Company's independent registered public accounting firm.

Proxy ballots will be received, tabulated and certified at the Annual Meeting by the inspector of election appointed by the Board. The inspector will also determine whether a quorum is present at the Annual Meeting.

Revocation of Proxies

If you are a shareholder of record on the Record Date and have signed, dated and returned a proxy card, you may revoke such proxy card in your discretion by:

submitting a written notice of such revocation to the President of the Company so that it is received no later than 5:00 p.m. (New York City time) on January 4, 2017;

submitting a duly signed proxy card bearing a later date than the previously signed and dated proxy card to the President of the Company so that it is received no later than 5:00 p.m. (New York City time) on January 4, 2017; or

attending the Annual Meeting and voting in person thereat the shares represented by such proxy card (but attendance at the Annual Meeting will not, in and of itself, constitute revocation of a completed, signed and dated proxy card previously returned).

All such later-dated proxy cards or written notices of revocation of a proxy card should be sent to Enzo Biochem, Inc., 527 Madison Avenue, New York, New York 10022, Attention: Barry W. Weiner, President. If you hold shares in street name, you must contact the firm that holds your shares to change or revoke any prior voting instructions.

Voting

The persons named as proxies in the enclosed proxy card will vote the shares for which such persons were thereby appointed in accordance with the voting indications marked thereon by the shareholders who signed, dated and returned such card. If, however, such proxy card is signed, dated and returned to the Company but no voting indications are marked thereon, all shares represented by such proxy card will be voted by the proxies named therein "FOR" the election of the Board's Class II Director-nominees, Mr. Barry W. Weiner and Dr. Bruce A. Hanna, Ph.D. (Proposal 1), "FOR" the approval, in a non-binding advisory vote, of the compensation of our Named Executive Officers, as disclosed in this Proxy Statement (Proposal 2), and "FOR" the ratification of the Company's appointment of EisnerAmper LLP to serve as the Company's independent registered public accounting firm for its fiscal year ending July 31, 2017 (Proposal 3), and will be voted on any other matters as may come before the Annual Meeting in the best judgment and discretion of the persons named as proxies.

You can find the official results of voting at the Annual Meeting in our Current Report on Form 8-K to be filed within four business days after the Annual Meeting. If the official results are not available at that time, we will provide preliminary voting results in the Form 8-K and will provide the final results in an amendment to the Form

8-K as soon as they become available.

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SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT

Set forth below is information, as of November 15, 2016 concerning stock ownership of all persons known by the Company to own beneficially 5% or more of the shares of Common Stock of the Company, the executive officers named in the “Summary Compensation Table” as “Named Executive Officers,” all current Directors and the Board’s Class II Director-nominees, and all current Directors and executive officers of the Company as a group, based upon the number of outstanding shares of Common Stock as of the close of business on November 15, 2016.

The percentages in the “Percent of Class” column are calculated in accordance with the rules of the SEC, under which a person may be deemed to be the beneficial owner of shares if that person has or shares the power to vote or dispose of those shares or has the right to acquire beneficial ownership of those shares within 60 days (for example, through the exercise of an option or warrant). The shares shown in the table as beneficially owned by certain individuals may include shares owned by certain members of their respective families. Because of these rules, more than one person may be deemed to be the beneficial owner of the same shares. The inclusion of the shares shown in the table is not necessarily an admission of beneficial ownership of those shares by the person indicated. Except as otherwise indicated, each of the persons named has sole voting and investment power with respect to the shares shown.

Name and Address of Beneficial Owner	Amount and Nature of Beneficial Ownership (1)	Percent of Class (2)
Elazar Rabbani, Ph.D.	1,879,383 ⁽³⁾	4.0 %
Barry W. Weiner	1,310,867 ⁽⁴⁾	2.8 %
James M. O’Brien	28,187 ⁽⁵⁾	*
Dieter Schapfel, M.D.	15,284 ⁽⁶⁾	*
Bruce A. Dey	35,397 ⁽⁷⁾	*
Gregory M. Bortz	292,875 ⁽⁸⁾	*
Dov Perlisky	684,237 ⁽⁹⁾	1.4 %
Bruce A. Hanna, Ph.D.	- ⁽¹⁰⁾	*
Bernard L. Kasten, M.D.	276,119 ⁽¹¹⁾	*
Wellington Management Group LLP	4,104,129 ⁽¹²⁾	8.9 %
Evermore Global Advisors, LLC	3,237,054 ⁽¹³⁾	6.8 %
Blackrock Fund Advisors	2,666,852 ⁽¹⁴⁾	5.8 %
All Directors and executive officers as a group (8 persons)	4,522,350 ⁽¹⁵⁾	9.5 %

*Represents beneficial ownership of less than 1%.

Except as otherwise noted in the footnotes to the table, all shares of Common Stock are beneficially owned and (1) the sole investment and voting power is held by the persons named, and such persons’ address is c/o Enzo Biochem, Inc., 527 Madison Avenue, New York, New York 10022.

(2) Based upon 46,279,787 shares of Common Stock of the Company outstanding as of the close of business on the Record Date. Common Stock not outstanding but deemed beneficially owned by virtue of the right of an individual to acquire shares within 60 days from the date hereof is treated as outstanding only when determining the amount and percentage of Common Stock owned by directors and executive officers individually and as a

group.

(3) Includes (i) 284,845 shares of Common Stock issuable upon the exercise of options which are exercisable within 60 days from the date hereof, (ii) 5,308 shares of Common Stock held in the name of Dr. Rabbani as custodian for certain of his children, (iii) 18,794 shares of Common Stock held in the name of Dr. Rabbani's wife as custodian for certain of their children, and (iv) 29,823 shares of Common Stock held in the Company's 401(k) plan.

(4) Includes (i) 213,096 shares of Common Stock issuable upon the exercise of options which are exercisable within 60 days from the date hereof, (ii) 3,638 shares of Common Stock that Mr. Weiner holds as custodian for certain of his children, and (iii) 29,830 shares of Common Stock held in the Company's 401(k) plan.

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- (5) Includes (i) 23,310 shares of Common Stock issuable upon the exercise of options which are exercisable within 60 days from the date hereof, and (ii) 4,877 shares of Common Stock held in the Company's 401(k) plan.
- (6) Includes 10,000 shares of Common Stock issuable upon the exercise of options which are exercisable within 60 days from the date hereof, and (ii) 5,284 shares of Common Stock held in the Company's 401(k) plan.
- (7) Includes (i) 7,500 shares of Common Stock issuable upon the exercise of options which are exercisable within 60 days from the date hereof, and (ii) 27,897 shares of Common Stock held in the Company's 401(k) plan.
- (8) Includes 225,810 shares of Common Stock issuable upon the exercise of options which are exercisable within 60 days from the date hereof.
Includes (i) 225,810 shares of Common Stock issuable upon the exercise of options which are exercisable within 60 days from the date hereof, (ii) 30,000 shares owned by Laya Perlysky (Mr. Perlysky's wife) in an IRA account of which Mr. Perlysky disclaims beneficial ownership, (iii) 18,250 shares owned by Irwin Dov Perlysky IRA, (iv) 109,237 shares owned directly by RSD 2012 GRAT, of which Mr. Perlysky is the trustee; (v) 45,000 shares owned by Sky Ventures LLC, of which Mr. Perlysky is the manager, (vi) 1,714 shares owned directly by Mr. Perlysky, (vii) 244,020 shares owned by Kinder Investments LLP, (viii) 6,981 shares owned by Krovim LLC and (ix) 3,225 shares owned by MidAtlantic Capital LLC. Does not include shares owned by Mrs. Rosalind Davidowitz, who is Mr. Perlysky's mother-in-law.
- (10) Nominee director
Includes 257,455 shares of Common Stock issuable upon the exercise of options which are exercisable on
- (11) January 5, 2017. Bernard L. Kasten, M.D. will not stand for reelection as his third director term expires at the January 5, 2017 meeting.
- (12) The address of Wellington Management Group LLP is 280 Congress Street, Boston, MA 02210. This information is based solely on a Schedule 13F filed on September 30, 2016.
- (13) The address of Evermore Global Advisors, LLC is 89 Summit Ave., Summit NJ 07901. This information is based solely on a review of the fund's holdings as of September 30, 2016.
- (14) The address of Blackrock Fund Advisors is 400 Howard St., San Francisco, CA 94105. This information is based solely on a Schedule 13F filed on September 30, 2016.
- (15) Includes 1,247,825 shares of Common Stock issuable upon the exercise of options which are exercisable within 60 days from the date hereof.

**PROPOSAL 1
ELECTION OF DIRECTORS**

Board Nominees for Election at the Annual Meeting.

The Company's Board has three staggered classes of Directors, each of which serves for a term of three years. At the Annual Meeting, the Board's Class II Directors will be elected to hold office for a term of three years or until their respective successors are elected and qualified. Unless otherwise instructed, the shares represented by validly submitted proxy cards will be voted "FOR" the election of the below-listed Board nominees to serve as Class II Directors of the Company. Management has no reason to believe that the below-listed Board nominees will not be candidates or will be unable to serve as Class II Directors. However, in the event that the below-listed Board nominees should become unable or unwilling to serve as Class II Directors, the proxy cards will be voted for the election of such alternate persons as shall be designated by the Class I and Class III Directors currently on the Board. If any alternate person(s) is/are designated by the Class I and Class III Directors currently on the Board to serve as Class II Director-nominee(s), the Company will publicly notify shareholders by press release and will promptly distribute to shareholders revised proxy materials (including a revised proxy card) that (i) identify each such substitute nominee, (ii) disclose whether such substitute nominee has consented to being named in the revised proxy statement and to serve if elected and (iii) include certain other disclosure required by applicable federal proxy rules and regulations with respect to each such substitute nominee.

The total cumulative length of time that any Outside Director (a member of the Board who is not an officer or employee of the Company) may serve on the Board is limited to a maximum of three, three-year terms, whether consecutively or in total, plus any portion of an earlier three-year term that such Outside Director may have been appointed to serve.

Biographical Information for Nominees

CLASS II DIRECTOR NOMINEES TO SERVE UNTIL

THE 2019 ANNUAL MEETING, IF ELECTED:

Class II: Term to Expire at the 2019 Annual Meeting in 2020

Name	Year First Age Became a Director
Barry W. Weiner	66 1972

Bruce A. Hanna, Ph.D. 70 -

BARRY W. WEINER, President, Chief Financial Officer, Principal Accounting Officer and Director is also a founder of Enzo Biochem. He has served as the Company's President since 1996, and previously held the position of Executive Vice President. Before his employment with Enzo Biochem, he worked in several managerial and marketing positions at the Colgate Palmolive Company. Mr. Weiner is a member of the New York Biotechnology Association. He received his Bachelor of Arts degree in Economics from New York University and his Master of Business Administration in Finance from Boston University.

We believe that Mr. Weiner's qualifications to serve on our Board are demonstrated by his knowledge of our businesses and the industries in which we are involved, along with his experience in finance, management and marketing, including the identification of acquisition targets, business development and partnering and raising capital.

BRUCE A. HANNA, Ph.D., is nominated as an independent member of the Board of Directors and will serve on the Audit, Nominating and Corporate Governance, and the Compensation Committee. It is

expected he will serve as Chairman of the Nominating and Corporate Governance Committee. He is currently a Clinical Professor of Pathology and Clinical Professor of Microbiology at the New York University School of Medicine, and Adjunct Professor of Basic Science at New York University College of Dentistry, Adjunct Professor of Biology, Long Island University. From 2006 to 2015, he served on the ASM International Committee and WHO Global Committee, from 2000-2012 he served as an Editor of Clinical Microbiology Reviews, and 1982-2008 was Director of Clinical Microbiology, Immunology, and 2008-2010 was Interim Director of Pathology, Bellevue Hospital Center. Dr. Hanna, Ph.D. earned a Bachelor of Science in Biology from Saint Bonaventure University, a Masters in Science in Microbiology from Northeastern University, and a Ph.D. in Microbiology from Saint John's University. Dr. Hanna's post-doctorate work in Clinical Microbiology was at Mt. Sinai Hospital.

We believe that Dr. Hanna's qualifications to serve on our Board and its committees are demonstrated by his professional background, experience in the healthcare field, including his academic background and technical experience.

THE BOARD OF DIRECTORS OF THE COMPANY UNANIMOUSLY RECOMMENDS THAT YOU VOTE "FOR" THE ELECTION OF THE ABOVE-NAMED BOARD NOMINEES TO SERVE AS CLASS II DIRECTORS OF THE COMPANY.

The persons named as proxies intend to vote the proxies "FOR" the election of each of these nominees unless you indicate on the proxy card a vote to "WITHHOLD" your vote with respect to any of the nominees. If for some reason any director nominee is unable to serve, or for good cause will not serve if elected, the persons named as proxies may vote for a substitute nominee recommended by the Board, and unless you indicate otherwise on the proxy card, the proxies will be voted in favor of the remaining nominees. If any substitute nominees are designated, we will file an amended proxy statement that, as applicable, identifies the substitute nominees, discloses that such nominees have consented to being named in the revised proxy statement and to serve if elected, and includes certain biographical and other information about such nominees required by SEC rules.

DIRECTORS WHO ARE CONTINUING IN OFFICE:

Class III: Term to Expire at the 2017 Annual Meeting in 2018

Name	Age	Year First Became a Director
Elazar Rabbani, Ph.D.	73	1976

Class I: Term to Expire at the 2018 Annual Meeting in 2019

Name	Age	Year First Became a Director
Gregory M. Bortz	47	2010
Dov Perlysky	54	2012

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DIRECTORS, EXECUTIVE OFFICERS AND KEY EMPLOYEES

The current Directors, executive officers and key employees of the Company and its subsidiaries are identified in the table below.

Name	Age	Year Became a Director or Executive Officer	Position
Elazar Rabbani, Ph.D.	73	1976	Chairman of the Board, Chief Executive Officer and Secretary
Barry W. Weiner	66	1977	(1) President, Chief Financial Officer, Principal Accounting Officer, Treasurer and Director
James M. O'Brien	50	2014	Executive Vice President, Finance
Dieter Schapfel, M.D.	53	2014	Chief Medical Director, Enzo Clinical Labs
Bruce A. Dey	58	2014	Vice President of Sales, Enzo Clinical Labs
Gregory M. Bortz	47	2010	Director
Bernard L. Kasten, M.D.	70	2008	(1) Director
Dov Perlysky	54	2012	Director

(1) Director term expires January 5, 2017. Bernard L. Kasten, M.D. will not stand for reelection as his third director term expires at the January 5, 2017 meeting.

Biographical Information Regarding Directors, Executive Officers and Key Employees

ELAZAR RABBANI, Ph.D. is an Enzo Biochem founder and has served as the Company's Chairman of the Board and Chief Executive Officer since its inception in 1976 and Secretary since November 25, 2009. Dr. Rabbani has authored numerous scientific publications in the field of molecular biology, in particular, nucleic acid labeling and detection. He is also the lead inventor of many of the Company's pioneering patents covering a wide range of technologies and products. Dr. Rabbani received his Bachelor of Arts degree from New York University in Chemistry and his Ph.D. in Biochemistry from Columbia University. He is a member of the American Society for Microbiology.

We believe that Dr. Rabbani's qualifications to serve on our Board are demonstrated by his extensive knowledge of our industry, accomplishments over the last 39 years, including building our Intellectual Property estate and the commercialization of technology which has generated significant revenues for the Company.

BARRY W. WEINER, President, Chief Financial Officer, Principal Accounting Officer and Director is also a founder of Enzo Biochem. He has served as the Company's President since 1996, and previously held the position of Executive Vice President. Before his employment with Enzo Biochem, he worked in several managerial and marketing positions at the Colgate Palmolive Company. Mr. Weiner is a member of the New York Biotechnology Association. He received his Bachelor of Arts degree in Economics from New York University and his Master of Business Administration in Finance from Boston University.

We believe that Mr. Weiner's qualifications to serve on our Board are demonstrated by his knowledge of our businesses and the industries in which we are involved, along with his experience in finance, management and marketing, including the identification of acquisition targets, business development and partnering and raising capital.

JAMES M. O'BRIEN, Executive Vice President, Finance, joined Enzo Biochem in February 2014 as Senior Vice President, Finance and is responsible for leading and managing all activities for our Corporate and Business Unit Financial functions. From 2010 to 2013, Mr. O'Brien was Vice President and Corporate Controller for Allergen, plc. (formally Actavis, plc) a global specialty pharmaceutical company. From 1998 to 2010, Mr. O'Brien held senior level finance leadership roles at Nycomed US, Aptuit, Inc., Purdue Pharma LLP and Bristol Myers Squibb Company.

From 1988 to 1998, Mr. O'Brien was with PricewaterhouseCoopers LLP. He received his Bachelor of Accounting degree from George Washington University and his Master of Business Administration from Fordham University. Mr. O'Brien is a Certified Public Accountant.

DIETER SCHAPFEL, M.D., Chief Medical Director for Enzo Clinical Labs, has been employed with the Company since 2012, initially as a consulting pathologist. Dr. Schapfel served as Medical Director of Pathology at Southside Hospital–North Shore/Long Island Jewish Health System from 2006 to 2012. Dr. Schapfel served as a staff pathologist at Huntington Hospital from January 2004 to June 2006. Dr. Schapfel served as Director of Pathology and Medical Affairs and the College of American Pathologists Director of Pathology, Dublin, Ireland and Farmingdale, NY for Icon Laboratories from February 2002 to October 2003. Dr. Schapfel is a graduate of the State University of New York at Stony Brook, College of Medicine, where he also served his residency. He is a diplomat of the American Board of Pathology with certification in Anatomic and Clinical Pathology and is also a diplomat of The National Board of Medical Examiners.

BRUCE A DEY, Vice President, Sales & Marketing, joined Enzo Clinical Labs in December, 2003, and has over 30 years' experience developing sales and commercial operations in the laboratory services industry. Prior to joining Enzo Clinical Labs, Mr. Dey served as Vice President, Sales & Marketing for CDS Laboratories from 1989 to 2001, which was acquired by Quest Diagnostics in November 2001. He began his career with SmithKline Beecham Clinical Laboratories. Mr. Dey earned a Bachelor of Science in Economics and a Master of Business Administration from The State University of New York at Albany.

GREGORY M. BORTZ, has been a Director of the Company since January 2010. He is currently a member of the Company's Audit, Compensation and Nominating and Corporate Governance Committees and has been the Chairman of the Audit Committee since November 2010. It is expected that Mr. Bortz will become Enzo's Lead Independent Director in 2017. Mr. Bortz is the founder of the CREO group of companies ("CREO") and serves as CREO's managing partner. CREO's interests include a combination of private equity and hedge fund investments. On the private equity side, CREO is currently investing through its third fund, CREO Capital Partners Fund III, L.P. Under Mr. Bortz's leadership, CREO has achieved successful exits from several private equity investments. CREO's success is driven by its strategy of acquiring middle market companies at reasonable prices, strengthening and improving their operations and balance sheets and adding scale through selective, accretive mergers and acquisitions. Mr. Bortz serves as a board member of the companies in CREO's private equity portfolio. In addition, Mr. Bortz serves as the Chief Investment Officer of the CREO Select Opportunities Fund, a hedge fund that focuses on investing in public fixed income and equity securities.

From October 2000 to February 2005, Mr. Bortz was Senior Vice President, Investment Banking Division, of Lehman Brothers, Inc., an international investment bank. During his tenure at Lehman Brothers, Mr. Bortz was involved in numerous public and private debt and equity offerings, mergers and acquisitions, and restructurings. Prior to joining Lehman Brothers, Mr. Bortz held the position of Vice President of Investment Banking at Credit Suisse First Boston, an international investment bank, from January 1998 to October 2000. Mr. Bortz also previously held the position of Manager at the accounting firm of Ernst and Young (1994–1997) and Senior at the public accounting firm of Arthur Andersen (1993–1994), both in those firms' respective audit groups. Mr. Bortz was qualified as a chartered accountant in England and Wales as well as in South Africa. He graduated with honors from the University of Cape Town with a Bachelors of Business Science in Finance and holds a Postgraduate Diploma in Accounting from that same institution.

We believe that Mr. Bortz's qualifications to serve on our Board are demonstrated by his more than 22 years of accounting, auditing, financial and investment banking experience as well as his experience as a board member of CREO's portfolio companies. The Company believes that Mr. Bortz is independent under the rules of the NYSE.

DOV PERLYSKY has been a Director of the Company since September 2012 and since January 2013 has been a member of the Audit Committee and chair of the Nominating and Corporate Governance Committee. In 2017, Mr. Perlysky is expected to become the chair of the Compensation Committee. Mr. Perlysky has been a member of the Board of Directors of Pharma-Bio Serv, Inc. since 2004, Highlands State Bank since 2010 and News Communications since 2007. Mr. Perlysky has also been the managing member of Neshor, LLC, a private investment firm, since 2000 and a director of Engex, Inc., a closed-end mutual fund, since 1999. From 1998 until 2002, Mr. Perlysky was a vice president in the private client group of Laidlaw Global Securities, a registered broker-dealer. Mr. Perlysky received his Bachelor of Science in Mathematics and Computer Science from the University of Illinois in 1985 and his Master of Science in Management Studies from the J.L. Kellogg School of Management of Northwestern University in 1991.

Mr. Perlysky is the son-in-law of Rosalind Davidowitz, see “Security Ownership of Certain Beneficial Owners and Management” on page 10 and footnotes 9 and 13 thereof. The Company believes that Mr. Perlysky is independent under the rules of the NYSE.

We believe that Mr. Perlysky’s qualifications to serve on our Board are demonstrated by his professional background, experience in the healthcare field (including his director position at Pharma-Bio Serv, Inc.), other current and past board positions and finance background, making him well qualified as a member of our Board.

BRUCE A. HANNA, Ph.D., is nominated as an Independent member of the Board of Directors in January 2017 and if elected will serve on the Audit, Nominating and Corporate Governance, and the Compensation Committee. Also if elected, it is expected he will serve as Chairman of the Nominating and Corporate Governance Committee. He is currently a Clinical Professor of Pathology and Clinical Professor of Microbiology at the New York University School of Medicine, Adjunct Professor of Science at New York University College of Dentistry, Adjunct Professor of Biology, Long Island University. From 2006 to 2015, he served on the ASM International Committee and WHO Global Committee, from 2000-2012 he served as the Editor of the Clinical Microbiology Review, and 2008-2010 was Interim Director of Pathology, Bellevue Hospital Center. Dr. Hanna earned a Bachelor of Science in Biology from Saint Bonaventure University, a Masters in Science in Microbiology from Northeastern University, and a Ph.D. in Microbiology from Saint John’s University. Dr. Hanna’s post-doctorate work in Clinical Microbiology was at Mt. Sinai Hospital.

We believe that Dr. Hanna’s qualifications to serve on our Board are demonstrated by his professional background, experience in the healthcare field, including his academic background and technical experience.

Family Relationships

Dr. Elazar Rabbani and Barry W. Weiner are brothers-in-law.

Director Independence

Messrs. Gregory M. Bortz and Dov Perlysky and Dr. Bernard L. Kasten qualify as “Independent Directors” under the criteria established by the NYSE. Bruce A. Hanna, Ph.D. director nominee, qualifies as an “Independent Director” under the same criteria.

THE BOARD OF DIRECTORS OF THE COMPANY UNANIMOUSLY RECOMMENDS THAT YOU VOTE “FOR” THE ELECTION OF THE ABOVE-NAMED BOARD NOMINEES TO SERVE AS CLASS II

DIRECTORS OF THE COMPANY.

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CORPORATE GOVERNANCE

Our Board and management are committed to responsible corporate governance to ensure that the Company is managed for the long-term benefit of its shareholders. To that end, during the past year, as in prior years, the Board and management have periodically reviewed and updated, as appropriate, the Company's corporate governance policies and practices. During the past year, the Board has also continued to evaluate and, when appropriate, update the Company's corporate governance policies and practices in accordance with the requirements of the Sarbanes-Oxley Act of 2002 and the rules and listing standards issued by the Securities and Exchange Commission and the NYSE.

Corporate Governance Policies and Practices

The Company has a variety of policies and practices to foster and maintain responsible corporate governance, including the following:

Corporate Governance Guidelines—The Board adopted Corporate Governance Guidelines, which collect in one document many of the corporate governance practices and procedures that had evolved over the years. These guidelines address the duties of the Board, Director qualifications and selection process, Board operations, Board Committee matters and continuing education. The guidelines also provide for annual self-evaluations by the Board and its Committees. The Board reviews these guidelines on an annual basis. The guidelines are available on the Company's website at www.enzo.com, and in print to any interested party that requests them by contacting Investor Relations at (212) 583-0100.

Corporate Code of Ethics—The Company has a Code of Ethics that applies to all of the Company's employees, officers and members of the Board. The Code of Ethics is available on the Company's website at www.enzo.com, and in print to any interested party that requests it.

Board Committee Charters—Each of the Company's Audit, Compensation and Nominating and Corporate Governance Committees has a written charter adopted by the Company's Board that establishes practices and procedures for such Committee in accordance with applicable corporate governance rules and regulations. The charters are available on the Company's website at www.enzo.com, and in print to any interested party that requests them.

Director Term Limits—The total cumulative length of time that any member of the Board who is not an officer or employee of the Company (an "Outside Director") may serve on the Board is limited to a maximum of three, three-year terms, whether consecutively or in total, plus any portion of an earlier three-year term that such Outside Director may have been appointed to serve.

Lead Independent Director Charter—The duties of the Lead Independent Director, as set forth in the Lead Independent Director Charter, among other things, are to develop the agendas for and serve as chairman of the executive sessions of the independent Directors of the Company; serve as principal liaison between the independent Directors of the Company and the Chairman of the Board and between the independent Directors and senior management; provide the Chairman of the Board with input as to the preparation of the agendas for Board meetings; advise the Chairman of the Board as to the quality, quantity and timeliness of the information submitted by the Company's management that is necessary or appropriate for the independent Directors to effectively and responsibly perform their duties; ensure that independent Directors have adequate opportunities to meet and discuss issues in executive sessions without management present; if the Chairman of the Board is unable to attend a Board meeting, act as chairman of such Board meeting; and perform such other duties as the Board shall from time to time delegate.

Bernard L. Kasten, M.D. has served as Lead Independent Director since March 2011. At the January 5, 2017 Annual Meeting, it is expected that Gregory M. Bortz will become the Lead Independent Director. The Lead Director role was established in October 2005.

The Lead Independent Director Charter is available on the Company's website at www.enzo.com, and in print to any interested party that requests it by contacting Investor Relations at (212) 583-0100.

Director Independence

Requirements—The Board believes that a majority of its members should be independent, non-employee Directors. The Board adopted the following “Director Independence Standards,” which are consistent with criteria established by the NYSE, to assist the Board in making these independence determinations:

No Director can qualify as independent if he or she has a material relationship with the Company outside of his or her service as a Director of the Company. A Director is not independent if, within the preceding three years:

- The Director was an employee of the Company;
- An immediate family member of the Director was an executive officer of the Company;
- A Director was affiliated with or employed by a present or former internal or external auditor of the Company;
- An immediate family member of a Director was affiliated with or employed in a professional capacity by a present or former internal or external auditor of the Company;

A Director, or an immediate family member of the Director, received more than \$120,000 per year in direct compensation from the Company, other than Director and Committee fees and pension or other forms of deferred compensation for prior services (provided such compensation is not contingent in any way on continued service);

The Director, or an immediate family member of the Director, was employed as an executive officer of another company where any of the Company’s executives served on that company’s compensation committee of the board of Directors;

The Director was an executive officer or employee, or an immediate family member of the Director was an executive officer, of another company that made payments to, or received payments from, the Company for property or services in an amount which, in any single fiscal year, exceeded the greater of \$1 million or two percent (2%) of such other company’s consolidated gross revenues;

The Director, or an immediate family member of the Director, was an executive officer of another company that was indebted to the Company, or to which the Company was indebted, where the total amount of either company’s indebtedness to the other was five percent (5%) or more of the total consolidated assets of the Company he or she served as an executive officer; or

The Director, or an immediate family member of the Director, was an officer, Director or trustee of a charitable organization where the Company’s annual discretionary charitable contributions to the charitable organization exceeded the greater of \$1 million or two percent (2%) of that organization’s consolidated gross revenues.

The Board has reviewed all material transactions and relationships among each Director, or any member of his or her immediate family, and the Company, its senior management and its independent auditors. Based on this review and in accordance with its independence standards outlined above, the Board has affirmatively determined that all of the non-employee Directors are independent as such term is defined by the New York Stock Exchange.

Board Leadership Structure and Role in Risk Oversight

Elazar Rabbani, Ph.D. has been the Company's Chairman of the Board and Chief Executive Officer since the Company's inception in 1976. The Company believes that having one person, particularly Dr. Rabbani with his deep industry and executive management experience, his extensive knowledge of the operations of the Company and his own history of innovation and strategic thinking, serve as both Chief Executive Officer and Chairman is the best leadership structure for the Company because it demonstrates to employees, customers and shareholders that the Company is under strong leadership, with a single person setting the tone and having primary responsibility for managing the Company's operations. This unity of leadership promotes strategy development and execution, timely decision-making and effective management of Company resources. The Company believes that it has been well served by this structure.

As described above, three of the Company's five Directors are independent. In addition, all of the directors on each of the Audit Committee, Compensation Committee and Nominations and Corporate Governance Committee are independent directors and each of these Committees is led by a Committee chair. The Committee chairs set the

agendas for their Committees and report to the full Board. All of the independent Directors are highly accomplished and experienced business people in their respective fields, have demonstrated leadership in significant enterprises and are familiar with board processes. The Company's independent Directors bring experience, oversight and expertise from outside the company and industry, while the Company's Chairman and Chief Executive Officer and Mr. Weiner, as President and Chief Financial Officer bring company-specific experience and expertise.

Additionally, the Company has had a Lead Independent Director since October 2005, whose duties, among other things, are to lead the executive sessions of the independent Directors of the Company; serve as liaison between the independent Directors of the Company on one hand and the Chairman of the Board and senior management on the other hand, advise the Chairman of the Board as to the quality, quantity and timeliness of the information submitted by the Company's management to the independent Directors; and perform such other duties as the Board shall from time to time delegate.

While the Board is responsible for overseeing the Company's risk management, the Board has delegated many of these functions to the Audit Committee. Under its charter, the Audit Committee is responsible for discussing with management and the independent auditors the Company's major financial risk exposures, the guidelines and policies by which risk assessment and management is undertaken, and the steps management has taken to monitor and control risk exposure. In addition to the Audit Committee's work in overseeing risk management, the full Board regularly engages in discussions regarding the most significant risks that the Company is facing and how those risks are being managed, and the Board receives risk management updates directly from senior management of the Company and from the chair of the Audit Committee. In addition, the Chairman and Chief Executive Officer's extensive knowledge of the Company and experience in the industries in which we operate uniquely qualifies him to lead the Board in assessing the whole panoply of risks to the Company. The Board believes that the work undertaken by the Audit Committee, the full Board and the Chairman and Chief Executive Officer, enables the Board to effectively oversee the Company's risk management function. Bernard L. Kasten, M.D. has served as Lead Independent Director since March 2011. At the January 5, 2017 Annual Meeting, Gregory M. Bortz will become the Lead Independent Director.

Board Nomination Policies and Procedure

Nomination Procedure—The Nominating and Corporate Governance Committee is responsible for identifying, evaluating and recommending candidates for election to the Board, with due consideration for recommendations made by other Board members, the CEO and other sources, including shareholders. The total cumulative length of time that any Outside Director (a member of the Board who is not an officer or employee of the Company) may serve on the Board is limited to a maximum of three three-year terms, whether consecutively or in total, plus any portion of an earlier three-year term that such Outside Director may have been appointed to serve. The Nominating and Corporate Governance Committee also considers the appropriate balance of experience, skills, and characteristics desirable among the members of the Board to maintain a diverse Board of Directors. The independent members of the Board review the Nominating and Corporate Governance Committee candidates and nominate candidates for election by the Company shareholders. The Nominating and Corporate Governance Committee will consider candidates for election to the Board recommended by shareholders of the Company. The procedures for submitting shareholder recommendations are explained below under "Shareholder Proposals" on page 42.

Directors must also possess the highest personal and professional ethics, integrity and values and be committed to representing the long-term interests of all shareholders. Board members are expected to diligently prepare for, attend and participate in Board and applicable Committee meetings. Each Board member is expected to ensure that other existing and future commitments do not materially interfere with the member's service as a Director.

The Nominating and Corporate Governance Committee also reviews whether a potential candidate will meet the Company's independence standards and any other Director or Committee membership requirements imposed by law, regulation or stock exchange rules.

The Nominating and Governance Committee will consider, among other factors, the following to evaluate recommended nominees:

- The Board's current composition, including expertise, diversity, balance of management and non-management directors;

- Independence and other qualifications required or recommended by applicable laws, rules and regulations (including NYSE requirements) and the Company's policies and procedures; and

- The general qualifications of potential nominees, including, but not limited to: personal integrity, loyalty to the Company and concern for its success and welfare; experience at strategy and policy setting; high-

level leadership experience in business; breadth of knowledge about issues affecting Enzo Biochem; an ability to work effectively with others; sufficient time to devote to the Company; and freedom from conflicts of interest.

Director candidates recommended to the Committee are subject to full Board approval and subsequent election by the shareholders. The Board is also responsible for electing Directors to fill vacancies on the Board that occur due to retirement, resignation, expansion of the Board or other reasons between the Shareholders' annual meetings. The Nominating and Corporate Governance Committee may retain a recruitment firm, from time to time, to assist in identifying and evaluating Director candidates. When a firm is used, the Committee provides specified criteria for Director candidates, tailored to the needs of the Board at that time, and pays the firm a fee for these services. Suggestions for Director candidates are also received from Board members and management and may be solicited from professional associations as well.

Board Committees

All members of each of the Company's three standing committees—Audit, Compensation, and Nominating/Governance—are required to be independent in accordance with NYSE criteria. See below for a description of the responsibilities of the Board's standing committees.

Executive Sessions of Non-Management Directors

The Board and each of the Audit, Compensation and Nominating/Governance Committees periodically hold meetings of only the independent Directors or Committee members without management present.

Board Access to Independent Advisors

The Board as a whole, and each of the Board committees separately, has authority to retain and terminate such independent consultants, counselors or advisors to the Board as each shall deem necessary or appropriate.

Communications with Board of Directors

Direct Communications—Any interested party desiring to communicate with the Board or with any Director regarding the Company may write to the Board or the Secretary c/o Elazar Rabbani, Office of the Secretary, Enzo Biochem, Inc., 527 Madison Avenue, New York New York 10022. The Office of the Secretary will forward all such communications to the Director(s). Interested parties may also submit an email by filling out the email form on the

Company's website at www.enzo.com. Moreover, any interested party may contact the non-management Directors of the Board and/or the Lead Director.

Annual Meeting—The Company encourages its outside Directors to attend the annual meeting of shareholders each year. Messrs. Bortz and Perlysky and Dr. Kasten attended the Annual Meeting of Shareholders held in January 2016.

Meetings of the Board of Directors and its Committees

During the fiscal year ended July 31, 2016, there were seven formal meetings of the Board of Directors, several actions by unanimous consent and several informal meetings. None of the Directors attended less than 75% of the meetings of the Board (including Committee meetings). Currently, the Board of Directors has a Nominating and Corporate Governance Committee, an Audit Committee and a Compensation Committee. The Nominating and Corporate Governance Committee had four formal meeting, the Audit Committee had four formal meetings and the Compensation Committee had four formal meetings. Each of the Committees had additional informal meetings and three separate board consents.

The Audit Committee was established by and among the Board for the purpose of overseeing the accounting and financial reporting processes of the Company and audits of the financial statements of the Company in accordance with Section 3(a)(58)(A) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"). The Audit Committee is authorized to review proposals of the Company's auditors regarding the annual audit, recommend the engagement or discharge of the auditors, review recommendations of such auditors concerning accounting principles and the adequacy of internal controls and accounting procedures and practices, review the scope of the annual audit,

approve or disapprove each professional service or type of service other than standard auditing services to be provided by the auditors, and review and discuss the audited financial statements with the auditors. The current members of the Audit Committee are Messrs. Bortz and Perlysky and Dr. Kasten. Mr. Bortz has been the Chairman since November 2010. The Board has determined that each of the Audit Committee members is independent, as defined in the NYSE's listing standards and applicable SEC Rules. The Board has further determined that Mr. Bortz is an "audit committee financial expert" as such term is defined under Item 407(d)(5)(ii) of Regulation S-K promulgated under the Exchange Act, and that each director is financially literate as required under the NYSE listing standards.

The Compensation Committee has the power and authority to (i) establish a general compensation policy for the officers and employees of the Company, including to establish and at least annually review executive officers' salaries and non-equity incentive compensation plan program and levels of officers' participation in the benefit plans of the Company, (ii) prepare any reports that may be required by the regulations of the SEC or otherwise relating to officer compensation, (iii) approve any increases in Directors' fees, (iv) grant stock options and/or other equity instruments authorized by senior executives for non-executive officers and (v) exercise all other powers of the Board with respect to matters involving the compensation of employees and the employee benefits of the Company as shall be delegated by the Board to the Compensation Committee. The current members of the Compensation Committee are Messrs. Bortz and Perlysky and Dr. Kasten. The Board has determined that each member of the Compensation Committee is independent, as defined in the NYSE listing standards. Dr. Kasten has been the Chairman of the Compensation Committee since January 2011.

The Nominating and Corporate Governance Committee has the power to recommend to the Board prior to each annual meeting of the shareholders of the Company: (i) the appropriate size and composition of the Board; and (ii) nominees: (1) for election to the Board for whom the Company should solicit proxies; (2) to serve as proxies in connection with the annual shareholders' meeting; and (3) for election to all Committees of the Board other than the Nominating and Corporate Governance Committee. The Nominating and Corporate Governance Committee will consider nominations from the shareholders, provided that they are made in accordance with the Company's By-laws. When evaluating prospective Director candidates, the Nominating and Corporate Governance Committee conducts individual evaluations against the criteria stated in the Committee's Nominating and Corporate Governance guidelines. All Director candidates, regardless of the source of their nomination, are evaluated using the same criteria. The current members of the Nominating and Corporate Governance Committee are Dr. Kasten and Messrs. Bortz and Perlysky. Mr. Perlysky has been the Chairman since January 2013.

AUDIT COMMITTEE REPORT

In connection with the preparation and filing of the Company's Annual Report on Form 10-K for its fiscal year ended July 31, 2016:

1. The Audit Committee reviewed and discussed the audited financial statements and related footnotes with management and EisnerAmper LLP, the current independent registered public accounting firm. Management represented to the Audit Committee that the Company's financial statements were prepared in accordance with U.S. generally accepted accounting principles;
2. The Audit Committee discussed with the independent registered public accountants matters required to be discussed under PCAOB Auditing Standard No. 16;

3. The Audit Committee reviewed the written disclosures and the letter from the independent registered public accountants required by the applicable requirements of the Public Company Accounting Oversight Board, as may be modified or supplemented, regarding the independent registered public accounting firm's communication with the Audit Committee concerning independence and discussed with EisnerAmper LLP their independence;

4. The Audit Committee discussed with the Company's independent registered public accountants the overall scope and plans for its audit. The Audit Committee met with the independent registered public accountants with and without management present, to discuss the results of their examinations, their evaluations of the Company's internal controls, and the overall quality (and not merely the acceptability) of the Company's accounting principles and financial reporting, the reasonableness of significant estimates and judgments, and the disclosures in the Company's financial statements, including the disclosures relating to critical accounting policies. The Audit Committee held four formal meetings during the fiscal year ended July 31, 2016 with the independent registered public accounting firms; and

5. Based on the review and discussions referred to above, the Audit Committee recommended to the Board that the audited financial statements be included in the Company's Annual Report on Form 10-K for the fiscal year ended July 31, 2016 for filing with the SEC. We also selected EisnerAmper LLP as the independent registered public accounting firm for fiscal 2017. The Board is recommending that shareholders ratify that selection at the Annual Meeting.

Submitted by the members of the Audit Committee on October 5, 2016:

Gregory M. Bortz, Chairman
Bernard L. Kasten, MD.
Dov Perlysky

SECTION 16(A) BENEFICIAL OWNERSHIP REPORTING COMPLIANCE

Section 16(a) of the Exchange Act requires the Company's executive officers, Directors and persons who beneficially own more than 10% of a registered class of the Company's equity securities (collectively, "Reporting Persons") to file with the Securities and Exchange Commission initial reports of ownership and reports of changes in ownership of common stock and other equity securities of the Company within two business days. Such executive officers, Directors and greater than 10% beneficial owners are required by Securities and Exchange Commission regulation to furnish the Company with copies of all Section 16(a) forms filed by such Reporting Persons. Based solely on a review of the copies of such forms furnished to us and on written representations that no Form 5 was required to be filed, we believe that, during the fiscal year ended July 31, 2016, all of our directors and executive officers timely complied with the Section 16(a) filing requirements.

CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS

It is the responsibility of the Nominating and Corporate Governance Committee to consider questions of possible conflicts of interest of directors and of the Company's senior executives, which includes the consideration of all transactions required to be disclosed pursuant to the SEC's related person disclosure requirements. In addition, the Board has a Related Persons Policy which states that all related person transactions shall be in the best interests of the Company and, unless different terms are specifically approved or ratified by disinterested members of the Board, must be on terms that are (i) no less favorable to the Company than would be obtained in a similar transaction with an unaffiliated third party under the same or similar circumstances, or (ii) generally available to substantially all employees of the Company. In addition, if, any non-material or material related person transaction relates to any executive officer or director, it must be reviewed by the Nominating and Corporate Governance Committee who shall determine whether the transaction is in compliance with the Company's Related Person Policy.

Enzo Clinical Labs, Inc., a subsidiary of the Company ("Enzo Lab"), leases a facility located in Farmingdale, New York from Pari Management Corporation ("Pari"). Pari is owned equally by Elazar Rabbani, Ph.D., the Chairman and Chief Executive Officer of the Company; Shahram K. Rabbani, a former officer and Director of the Company; and Barry Weiner, the President, Chief Financial Officer and a Director of the Company, and his wife. The lease originally commenced on December 20, 1989, was amended and extended in October 2015 and now terminates on March 31, 2027. During the fiscal year ended July 31, 2016, Enzo Lab paid approximately \$1,704,000 to Pari with respect to such facility and future payments are subject to cost of living adjustments.

The non-interested members of the Board of Directors, at the time of the execution of the lease and each extension, reviewed and approved the transaction in accordance with the Company's procedures for reviewed related party transactions. The Nominating and Corporate Governance Committee obtained a third party appraisal to determine the value of the lease. Based on that appraisal, the Company, which has guaranteed Enzo Lab's obligations to Pari under the lease, believes that the existing lease terms are as favorable to the Company as would be available from an unaffiliated party.

CODE OF ETHICS

The Company has adopted a Code of Ethics (as such term is defined in Item 406 of Regulation S-K). The Code of Ethics is available on the Company's website at www.enzo.com, and in print to any shareholder that requests it by contacting Investor Relations at (212) 583-0100. The Code of Ethics applies to the Company's employees, officers and members of the Board. The Code of Ethics has been designed to deter wrongdoing and to promote:

- Honest and ethical conduct, including the ethical handling of actual or apparent conflicts of interest between personal and professional relationships;

- Full, fair, accurate, timely, and understandable disclosure in reports and documents that the Company files with, or submits to, the Securities and Exchange Commission and in other public communications made by the Company;

- Compliance with applicable governmental laws, rules and regulations;
- The prompt internal reporting of violations of the Code of Ethics to an appropriate person or persons identified in the Code of Ethics; and
- Accountability for adherence to the Code of Ethics.

COMPENSATION OF DIRECTORS

Each person who serves as a Director and who is not otherwise an officer or an employee (such Director being classified as an “Outside Director”) of the Company receives an annual Director’s fee of \$30,000. The Lead Independent Director receives an additional annual Director’s fee of \$25,000. Each Outside Director who serves on a Board Committee other than as a Committee chair also receives an annual fee of \$7,500. The Chairman of the Audit Committee receives an additional annual fee of \$20,000 and the Chairman of the Compensation Committee and the Chairman of the Nominating and Corporate Governance Committee each receive an additional annual fee of \$10,000. The Outside Directors receive either stock options or restricted stock units following the Annual Meeting, provided such person is a Director of the Company at such time. The number of stock options or restricted stock units that the Outside Directors will be granted will be equivalent to 25,000 restricted stock units, not to exceed a fair market value of \$100,000 per year. Either the stock options or restricted stock units referred to above shall be subject to a two-year vesting period; provided that at the time any non-employee Director ceases to be a Director of the Company (other than due to such Director’s resignation), such non-employee Director’s restricted stock units shall become fully vested at such time. The equity instruments are granted at the market price on the date of grant and have a term of up to five (5) years. The Company reimburses Directors for their travel and related expenses in connection with attending meetings of the Board and Board-related activities.

Director Compensation Table

The following table sets forth the information concerning compensation earned during our fiscal year ended July 31, 2016 by all non-employee Directors:

Name	Fees Earned or Paid in Cash	Restricted Stock/Stock Awards⁽¹⁾	Change in Pension Value and Non-Qualified Deferred Compensation Earnings	All Other Compensation	Total
Barnard L. Kasten, M.D. <i>Lead Director</i>	\$87,500	\$104,304	—	—	\$191,804
Gregory M. Bortz <i>Director</i>	\$72,500	\$104,304	—	—	\$176,804
Dov Perlysky <i>Director</i>	\$62,500	\$104,304	—	—	\$166,804

⁽¹⁾ Represents the grant fair value on the respective grant date for the fiscal year ended July 31, 2016, in accordance with accounting authoritative guidance. The assumptions used in calculating these amounts are set forth in Notes 1 and 10 to the Company's consolidated financial statements for the fiscal year ended July 31, 2016, included in the Company's Form 10-K filed with the SEC on October 13, 2016.

COMPENSATION OF EXECUTIVE OFFICERS

Compensation Discussion and Analysis

The Compensation Committee of our Board oversees our executive compensation program. In this role, the Compensation Committee reviews and approves all compensation decisions relating to our Named Executive Officers. The Compensation Committee also reviews and approves all equity awards for all employees except for annual amounts pre-approved for granting by the Chief Executive Officer or President for non-officers or new employees in connection with employment offers.

The Company strives to apply a uniform philosophy to compensation for all of its employees. This philosophy is based on the premise that the achievements of the Company result from the combined and coordinated efforts of all employees working toward common objectives.

Say-on-Pay Feedback from Shareholders

At our 2011 Annual Meeting of Shareholders, a majority of our shareholders voted to support an annual vote on our executive compensation and, in response, our Compensation Committee determined to hold an annual advisory vote on the matter. Annually, our Compensation Committee intends to review the results of the advisory vote and will consider this feedback as it completes its annual review of each pay element.

At our 2014 Annual Meeting of Shareholders, a majority of the shares that were voted were cast in favor of our say-on-pay proposal. In response to these voting results, during 2015, our senior management team and Board made additional efforts to engage and gather feedback from our shareholders regarding our executive compensation programs to better understand our shareholders' views on executive compensation and address any concerns they had. Our outreach program during 2015 included the following:

- numerous in-depth discussions and dialog throughout the year between senior management, the Chairman of the Compensation Committee and our shareholders,
- examination of reports and analysis issued by principal proxy advisory firms,
- analysis of compensation practices at peer companies; and
- advice from the Compensation Committee's independent compensation consultant.

At our 2015 Annual Meeting of Shareholders, a majority of the shares that were voted were cast in favor of our say-on-pay proposal. During 2016, we engaged in discussions with approximately 70% of our top 20 shareholders that own over 48% of our outstanding shares and in total, unaffiliated shareholders owning nearly 51% of our outstanding shares. We believe our executive compensation program is aligned with shareholder interests and feedback received has been incorporated into the Compensation Committee's evaluation of executive performance. While we received feedback on a variety of subjects, investors generally supported the long-term focus of our executive compensation program, and in fact noted that the non-equity based compensation of our executive officers was low compared to our peer group. Among the comments was a question as to why the Compensation Committee's decided to hold unchanged the CEO and President base salary for the last five years. Also, shareholders appreciated the successful patent defense program and commented that management should be recognized for the economic benefit to the Company.

The feedback of our shareholders and the operating performance of the Company were significant factors that impacted fiscal 2016 executive compensation. The market price of the Common Stock increased during fiscal 2016 and the one year shareholder return was 132.3%. Due to the Company's strong financial performance, the Compensation Committee increased executive cash compensation in fiscal 2016 compared to fiscal 2015. The Company's total three fiscal year average shareholder return improved significantly to 47.3% from 26% in fiscal 2015.

In consideration of recommendations from its extensive shareholder outreach and its outside advisors, and with the intent to continue to harmonize the interests of the shareholders and the executive team members, the Committee is currently considering certain changes to next year's compensation programs, with a particular focus on long-term incentive compensation. The Committee will continue to be guided by the philosophies which have governed its assessment of executive pay as it seeks to continuously review and where appropriate, modify its compensation actions and adjustments to best accord with best industry practices and Company and shareholder alignment.

Objectives and Philosophy of Our Executive Compensation Program

The primary objectives of the Compensation Committee with respect to executive compensation are to:

- align executives' incentives with the creation of shareholder value;

- align executive compensation with our corporate business objectives and performance;
- promote the achievement of key strategic and financial performance objectives through cash and equity incentives; and
- align executive compensation with comparable companies in our industry sectors to attract, retain and motivate the best possible executive talent.

The Compensation Committee views base salary, cash bonus and long-term incentives as the elements of a compensation mixture which aligns the Company goals with the elements of compensation of the broader peer group. We award long term incentive compensation in the form of stock options or restricted stock awards that vest over time. We believe this practice helps to retain our executives and aligns their interests with those of our shareholders by allowing them to participate in the longer term success of our Company as reflected in stock price appreciation. We believe that the use of time-vested stock options and restricted stock minimizes the likelihood of risky behavior and risky decision making that would be influenced by opportunities for short-term gains.

To achieve these objectives, the Compensation Committee evaluates senior management, with input from our CEO, with the goal of setting compensation at levels the Compensation Committee believes are competitive with those of other companies in our industry that compete with us for executive talent. The Compensation Committee also conducts an annual evaluation of the CEO in addition to senior management evaluations. Our Compensation Committee considers key financial, strategic and operational objectives, including but not limited to: maintenance of customer base, award of new patents, intellectual property protection, advancement of strategic alliances, operational efficiencies, M&A activity, licensing, clinical trial progress, new product introductions, provider contracts, investor relations, corporate governance, and our financial and operational performance, as quantified by measures at the consolidated level and for each of the operating segments.

The Compensation Committee each year re-evaluates and uses a peer group of publicly traded companies which they believe have business life cycles, revenues, market capitalizations, products, research and development investment levels and/or number/capabilities of employees that are roughly comparable to ours and against which the Compensation Committee believes we compete for executive talent. The Compensation Committee has retained Arthur Gallagher & Company, Human Resources & Compensation Consulting (formerly James F. Reda & Associates) (“Consultant”) as an independent compensation consultant. The Company’s senior management, with the assistance of the Consultant, compiled a list of peer companies. Since 2005, the Consultant has analyzed the executive compensation programs of these companies and issued reports to the Compensation Committee, the latest in November 2016. The Consultant advised the Compensation Committee during the fiscal 2015 compensation process that the total executive compensation was below the midpoint of executive compensation of the Company’s peer group. For fiscal 2016, the Compensation Committee intended to keep fiscal 2016 compensation at or near the prior year levels and used the fiscal 2016 market review to confirm that compensation below the midpoint of market range. The Consultant, with recommendations from senior management previously modified the peer company list during the 2016 proxy season to better reflect changes at the Company, with respect to operating segment significance, changes within the industries that the Company operates and changes among companies included in the peer group.

The peer companies were selected primarily based on their participation in the medical device and biotechnology research-related industries and were comparable to us with respect to size, market capitalization, and revenue based

upon information available. We also considered their similarity in organizational and operational complexity and stage of development where practicable. We believe the size of the peer group, 15 entities, is appropriate in light of the diverse nature of our industries and industry and sector volatility.

The companies that were included in the most recent peer group this year are as follows:

- Array Biopharma, Inc.
- Fluidigm Corp.
- Foundation Medicine, Inc.
- Harvard Bioscience, Inc.
- Luminex Corp.
- Meridian Biosciences, Inc.
- Momenta Pharmaceuticals, Inc.
- Nanostring Technologies, Inc.
- Natera, Inc.
- Neogenomics, Inc.
- Pacific Biosciences of California
- Quidel Corp.

- Repligen Corp.
- Sequenom, Inc.
- Spectrum Pharmaceuticals, Inc.

We compete with many other companies for executive personnel. The Compensation Committee generally targets total compensation for executives to be no higher than the 50th percentile of total compensation paid to similarly situated executives of the companies in the peer group.

The Compensation Committee may adjust compensation levels, upon consideration of the relevant drivers relating to the life sciences, clinical diagnostics or therapeutics industries we operate in, with respect to an executive's individual experience and performance level, and the overall performance of the Company.

The Compensation Committee met four times in fiscal 2016 in order to review and approve our compensation for named executives and non-employee Directors, and approve equity awards for all employees. The results of the Compensation Committee activities were reported to the Board.

Components of our Executive Compensation Program

The primary elements of our executive compensation program are:

- base salary;
- equity awards;
- non-equity incentive plan compensation;
- benefits and other compensation; and
- severance and change in control benefits.

Base Salary

Base salary levels recognize the experience, skills, knowledge and responsibilities of each executive's position within the Company.

Exclusive of the base salaries that are contractual, base salaries are reviewed annually by the Compensation Committee, and may be adjusted from time to time to realign salaries with market levels and among our peer group after taking into account individual responsibilities, performance, experience and cost of living. Base salaries also may be increased for merit reasons, based on the executive's success in meeting or exceeding individual performance objectives, promoting our core values and demonstrating leadership abilities.

The base salaries of the two founders, Dr. Elazar Rabbani, our Chairman of the Board, Chief Executive Officer, Secretary and Director and Mr. Barry Weiner, our President, Chief Financial Officer, Principal Accounting Officer, Treasurer and Director are set in accordance with the terms of executed employment agreements with each individual. Pursuant to the terms of their respective employment agreements, Dr. Rabbani and Mr. Weiner are currently at a base annual salary of \$555,478 and \$492,708, respectively. The Compensation Committee has not increased base salaries in five years, and has waived cost of living adjustments over this period with the exception of Mr. O'Brien who received base salary increase upon his promotion to Executive Vice President, Finance.

Non-Equity Incentive Compensation

The Company adopted a "Pay for Performance" Plan (the "Plan") for the Named Executive Officers and key management personnel to align incentive pay with performance as set forth with the individual based on their role with the Company. The performance goals for the Named Executive Officers and the annual performance awards are determined and approved by the Compensation Committee annually. The Plan provides for performance measures based on financial and non-financial measures and rewards for achievement for targets attained and/or improvements realized.

The weights on financial performance measures vary for Corporate and Divisional officers from 30% to 60% and include trade and service revenue growth, planned improvement in margins (divisional only), profitability and cash flows, with adjustments for non-recurring, uncontrollable events impacting revenues, expenses or cash flow beyond the control of management and certain legal expenses over the prior fiscal year. The Compensation

Committee chose these measures for fiscal 2015 and 2016 because they believe they are aligned with our core operating performance for fiscal 2015 and 2016 which focused on the business improvement over the prior year.

The weights on non-financial performance measures are between 40% and 70% and include strategic, operational and individual goals. Strategic and operational measures for fiscal 2016, depending on whether a Corporate or Divisional Named Executive Officer, include among others, implementation of cost reductions, process and infrastructure improvements, business and technology advancement, advancement of partnering arrangements and litigation proceedings, customer satisfaction, quality assurance and employee satisfaction. Individual performance measures which ranged from 10% to 30% of target goals include communication, leadership and process improvement. The measures provide for Threshold, Target and Maximum awards and are based on various ranges of performance. All of the Named Executive Officers received non-equity incentive awards below the target for fiscal 2016. The following achievements of the Company were used to assess the achievement with these target goals.

- The Company reached favorable legal settlements that provided \$58.8 million of additional working capital to enable the company to execute on its business strategy.
- Expanded the Company's platform technologies with approval of Candida and PLAQPRO™ Lp-PLA2 assays. Gross margins increased by 200 basis points in the clinical lab with emphasis on operational excellence, process improvements, and expanding molecular testing volumes.
- Reported operating segment profitability and generated positive cash flow; fully integrated structure proving positive impact.
- The strengthening of the Company's balance sheet with the above mentioned legal settlements, and strong operating performance of the business segments thereby allowing for an increase in our investments in technology based assets.
- Entered into several meaningful business development relationships that expand Enzo's test menu in woman's health markets.

The corporate financial measures applicable to the Chief Executive Officer, President, and Executive Vice President Finance, inclusive of adjustments, include revenue, operating loss improvement, and cash flow from operations improvement, which are equally weighted and averaged for the final results. The measures used for fiscal 2016 for the named executive officers and corresponding payouts are as follows:

	Threshold	Target	Maximum	Achieved
	(in millions)			
Financial Performance Measures—Revenue				
Corporate Revenues—trade and service	\$91.9	\$102.1	\$112.3	\$101.3
Payout—Revenue	75%	100%	150%	99%
Financial Performance Measures—Profit & Cash Flow				
Corporate operating loss improvement	\$5.3	\$6.6	\$7.3	\$53.6
Corporate cash flow from operations improvement	\$5.7	\$7.1	\$7.8	\$57.8
Payout—Profits & Cash Flow	80%	100%	150%	150%

In connection with the Plan, Dr. Rabbani was eligible for a maximum bonus of 75% of base salary for the fiscal year ended July 31, 2016. Dr. Rabbani was above threshold performance for his financial goals and at target performance for his non-financial goals and was awarded a bonus of \$575,000, which represented 87% of his base pay. In reviewing the CEO's performance, the Compensation Committee recognized Dr. Rabbani's broad contributions in the achievements listed above in his role as Chairman of the Board, including oversight of and increases to our technology platform and scientific product development, recruitment of new members of executive and scientific management, setting strategy for business development, implementing process improvement directly impacting financial performance and integration and realignment of our operating sites and oversight and protection of intellectual property, including outstanding patent litigation matters. In fiscal 2016, the CEO's efforts contributed to the favorable results in patent litigation cases resulting in settlements and licensing agreements of over \$82.0 million gross, and the advancement of other outstanding patent litigation matters, in which he is also the inventor.

In connection with the Plan, Mr. Weiner was eligible for a maximum bonus of 60% of base salary for the fiscal year ended July 31, 2016 under the Plan. Mr. Weiner was above threshold performance for his three financial goals

and at target performance for his non-financial goals and was awarded a bonus of \$425,000 which represented 86% of his base pay. The Compensation Committee recognized Mr. Weiner's contributions in strategic planning, financial management, including our Company's financial position and liquidity, corporate governance, communication efforts with our shareholders, investors and outside analysts, managing relationships with investment bankers for equity raise opportunities, oversight of the finance group and compliance with the Company's Section 404 Sarbanes Oxley requirements, role in recruitment of new management personnel and divisional management, leadership role among the divisional executives, execution of a planned cost reduction across all operating units, assistance with patent litigation cases resulting in settlements and licensing agreements of over \$82.0 million gross, and the successful financing transactions in fiscal 2016.

In connection with the Plan, Mr. James M. O'Brien was eligible for a maximum bonus of 35% of base salary under the Plan. The Compensation Committee reviewed the recommendation from our CEO with respect to Mr. O'Brien's performance in meeting the non-financial objectives including, enhancing our financial reporting internally and to the Board and the Audit Committee, participation in and achievements in the project to reduce operating and corporate costs, including third party contracts insurance program, benefit plans and professional fees, monitoring internal controls and Section 404 Sarbanes Oxley requirements, recruiting staff to the finance group and leadership role among our finance group and specifically in 2016 directly managed financing and equity activities. Mr. James M. O'Brien was above threshold performance for his three financial goals and exceeded threshold performance for his three non-financial goals and was awarded a bonus of \$85,000, which represented 28% of his base pay.

In connection with the Plan, Dieter Schapfel M.D. was eligible for a maximum bonus of 20% of base salary under the Plan. The Compensation Committee reviewed the recommendation from our CEO with respect to Dr. Schapfel's performance in meeting the non-financial objectives listed above, in expanding our platform technologies through the approval of new assays, and his contributions to operational excellence, as evidenced by the high degree of regulatory compliance in laboratory operations. Dr. Schapfel was above threshold performance for his three financial goals and exceeded threshold performance for his three non-financial goals and was awarded a bonus of \$40,000, which represented 13% of his base pay.

Mr. Bruce A. Dey is not eligible for a bonus under the Plan given the commission structure he participates in as Vice President of Sales for Enzo Clinical Labs.

Stock Options and Restricted Stock Awards

The Compensation Committee awards either stock options or restricted stock as the primary vehicle for long-term incentives to our executives, including our Named Executive Officers. We believe that equity awards provide our executives with a strong link to our long-term performance, create an ownership culture, and help to align the interests of our Named Executive Officers and our shareholders. Equity awards are intended as both a reward for contributing to the long-term success of our Company and an incentive for future performance.

Equity awards, in the form of stock options, restricted stock and/or restricted stock units vest ratably over a two or three year period with 50% or 33% of the award vesting 12 months after the Named Executive Officer's start date or the annual anniversary of the award grant and the remainder of the awards vesting annually over the remaining period. The vesting feature of our equity grants is intended to further our goal of executive retention by providing an incentive to our Named Executive Officers to remain in our employ during the vesting period. Equity awards are awarded under the 2011 Incentive Plan approved by the shareholders.

For fiscal year 2016, the Compensation Committee decided to grant stock options instead of restricted stock unit awards to greater align management incentives with maximizing shareholder value.

In determining the size of equity awards to our Named Executive Officers, our Compensation Committee considers comparable equity awards of executives in our compensation peer group, our Company-level operating and stock performance, the applicable Named Executive Officer's performance, the amount of equity previously awarded to the executive, the vesting schedule of such previous awards and the recommendations of management and its independent Consultant to the Compensation Committee. For the fiscal years ended July 31, 2016, 2015 and 2014, average equity compensation as a percentage of total compensation for all Named Executive Officers was 7%, 4% and 11%, respectively.

Equity awards are granted annually in conjunction with the review of a Named Executive Officer's individual performance. The Compensation Committee reviews all components of the Named Executive Officer's compensation when determining annual equity awards to ensure that a Named Executive Officer's total compensation conforms to our overall philosophy and objectives.

In March 2016, the Named Executive Officers were issued stock options as a component of their total compensation package as follows:

Executive Officer	Stock Options Issued	Market Value at Time of Issuance
Elazar Rabbani, Ph.D.	60,000 ⁽¹⁾	\$87,600
Barry W. Weiner	50,000 ⁽¹⁾	\$73,000
James M. O'Brien	26,000 ⁽²⁾	\$40,898
Dieter Schapfel, M.D.	27,000 ⁽²⁾	\$42,471
Bruce A. Dey	10,000 ⁽²⁾	\$15,730

(1) Each option award vests in equal amounts on the first and second anniversaries of the award grant.

(2) Each option award vests in equal amounts on the first, second and third anniversaries of the award grant.

The Compensation Committee believed that Dr. Rabbani and Mr. Weiner should be awarded the same amount of stock options as the prior year and noted that both executives own a substantial amount of the Company's stock given their tenure with the Company. Mr. O'Brien's and Dr. Schapfel's stock option awards were based on their financial and non-financial performance to the Company. The market value at the time of issuance is determined based on the Black-Scholes model.

Tax Deductibility

Section 162(m) of the Internal Revenue Code (the "Code") places a limit of \$1,000,000 on the amount of compensation that we may deduct in any given year with respect to the CEO and certain of our other most highly paid executive officers. There is an exception to the \$1,000,000 limitation for performance-based compensation meeting certain requirements.

Our annual base salary, a portion of cash incentive compensation and time-based restricted stock units are generally subject to the Section 162(m) deduction limitations. For 2016 all direct compensation is expected to be tax deductible. To maintain flexibility in compensating executive officers in view of the overall objectives of our compensation program, the Compensation Committee has not adopted a policy requiring that all compensation be tax deductible.

Risk Considerations in Our Compensation Program

We do not believe our compensation policies and practices encourage or support excessive risk taking by our executive officers or key managers. We establish compensation practices that we believe provide an appropriate level of incentive based compensation, in combination with non-incentive based compensation, to encourage our executive officers and key managers to act in the long-term best interests of the Company and our shareholders. These practices include:

· Awarding annual incentive bonuses based on assessment of short-term performance against financial and non-financial measures;

· Benchmarking annual incentive bonuses against an appropriate peer group of companies;

· Providing the Compensation Committee with discretion in approving annual non-equity incentive awards, with respect to non-financial targets, which affords the Committee the opportunity to reduce payments if it determines excessive risk was taken to achieve bonus targets; and

· Granting time-vested equity that generally vests over a two to three year period which provides incentives for our executive officers to act in the long-term best interests of the Company.

Summary Compensation Table

The following table sets forth summary information concerning compensation awarded to, paid to or earned by each of the following persons: (i) our Chairman of the Board, Chief Executive Officer and Secretary, (ii) our President, Chief Financial Officer, Principal Accounting Officer and Treasurer, (iii) our other executive officers (the “Named Executive Officers”) for each of the fiscal years ended July 31, 2016, 2015 and 2014.

Name and Principal Position	Year	Base pay⁽¹⁾ Salary⁽¹⁾	Option Awards⁽²⁾⁽³⁾	Non-Equity Incentive Plan Compensation⁽³⁾	All Other Compensation⁽⁴⁾	Total
Elazar Rabbani, Ph.D. Chairman of the Board of Directors, Chief Executive Officer and Secretary	2016	\$555,478	\$ 87,600	\$575,000	\$189,427	\$1,407,505
	2015	\$555,478	\$ 57,703	\$375,000	\$187,871	\$1,176,052
	2014	\$555,478	\$ 148,549	\$375,000	\$156,000	\$1,235,027
Barry W. Weiner President, Chief Financial Officer, Principal Accounting Officer, Treasurer and Director	2016	\$492,708	\$ 73,000	\$425,000	\$161,144	\$1,151,852
	2015	\$492,708	\$ 46,159	\$265,000	\$169,780	\$ 973,647
	2014	\$492,708	\$109,337	\$265,000	\$153,233	\$1,020,278
James M. O’ Brien ⁽⁵⁾ Executive Vice President of Finance	2016	\$305,000	\$ 40,898	\$85,000	\$ 19,657	\$450,555
	2015	\$285,881	\$ 20,790	\$ 70,000	\$ 19,324	\$395,995
	2014	\$123,846	\$ 22,140	\$ 37,000	\$ 4,388	\$187,374
Dieter Schapfel, M.D. ⁽⁶⁾ Chief Medical Director, Enzo Clinical Labs	2016	\$299,500	\$ 42,471	\$40,000	\$12,531	\$394,502
	2015	\$299,500	\$ 13,860	\$ 35,000	\$ 8,506	\$356,866
	2014	\$ 23,038	—	\$ 20,000	—	\$43,038
Bruce A. Dey Vice President of Sales, Enzo Clinical Labs	2016	\$484,414	\$15,730	—	\$22,593	\$523,737
	2015	\$415,771	—	—	\$22,132	\$437,903
	2014	\$396,721	\$12,340	—	\$22,132	\$431,193

(1) Base salaries set as of January 1 each year.

(2) Represent the fair market value of incentive stock option awards granted to Named Executive Officers on the date of grant, calculated in accordance with FASB ASC Topic 718 for all awards of stock options granted during the relevant fiscal year. Assumptions used in the calculation of these amounts are included in Note 10 to the Notes to Consolidated Financial Statements in our Annual Report on Form 10-K for the year ended July 31, 2016.

(3) Represents awards accrued under the Pay for Performance Plan for the years ended July 31, 2016, 2015 and 2014.

(4) See the “All Other Compensation” chart for additional information.

(5) Mr. James O'Brien became an executive officer in February 2014

(6) Dr. Dieter Schapfel became an executive officer in June 2014

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Grants of Equity Awards in Fiscal 2016

During the fiscal year ended July 31, 2016, the Compensation Committee approved the following equity awards to the Named Executive Officers:

<u>Name</u>	<u>Grant date</u>	Option Awards:	Exercise or Base	Grant Date Fair
		Number of Securities	Price of Option	Value of Stock
		<u>Underlying</u>	<u>Awards</u>	<u>Option</u>
Elazar Rabbani, Ph.D.	3/14/2016	60,000 ⁽¹⁾	\$4.35	\$87,600
Barry W. Weiner	3/14/2016	50,000 ⁽¹⁾	\$4.35	\$73,000
James M. O'Brien	3/14/2016	26,000 ⁽²⁾	\$4.35	\$40,898
Dieter Schapfel, M.D.	3/14/2016	27,000 ⁽²⁾	\$4.35	\$42,471
Bruce A. Dey ⁽³⁾	3/14/2016	10,000 ⁽²⁾	\$4.35	\$15,750

(1) Each option award vests in equal amounts on the first and second anniversaries of the award grant.

(2) Each option award vests in equal amounts on the first, second and third anniversaries of the award grant.

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Outstanding Equity Awards at Fiscal Year End—July 31, 2016

The following table sets forth summary information regarding the outstanding equity awards made to the Named Executive Officers at July 31, 2016.

Name	Number of Securities Underlying Unexercised Options Exercisable	Number of Securities Underlying Unexercised Options Unexercisable ⁽¹⁾	Option Exercise Price	Options Expiration Date
Elazar Rabbani, Ph.D.	159,091		\$3.00	11/26/2017
	38,505		\$2.88	1/17/2018
	41,634		\$2.70	1/17/2019
	22,807	22,808	\$3.40	1/21/2020
	—	60,000	\$4.35	3/14/2021
Barry W. Weiner	112,500		\$3.00	11/26/2017
	30,802		\$2.88	1/17/2018
	33,305		\$2.70	1/17/2019
	18,245	18,245	\$3.40	1/21/2020
	—	50,000	\$4.35	3/14/2021
James M. O'Brien	13,334	6,666	\$2.75	2/03/2019
	5,000	10,000	\$3.40	1/21/2020
	—	26,000	\$4.35	3/14/2021
Dieter Schapfel, M.D.	3,333	6,667	\$3.40	1/21/2020
	—	27,000	\$4.35	3/14/2021
Bruce A. Dey	7,500	2,500	\$2.53	10/3/2018
	—	10,000	\$4.35	3/14/2021

Each option award vests in equal amounts on the first, second and third anniversaries of the award grants which was January 17, 2013 for the options granted at \$2.88 per share, January 17, 2014 for the options granted at \$2.70 per share, February 3, 2014 for the options granted at \$2.75 and January 21, 2015 for the options granted at \$3.40 per share. For Dr. Elazar Rabbani and Barry Weiner, options vest on first and second anniversary dates.

Options Exercised and Stock Vested

The following table sets forth the options exercised by and restricted stock vested for the Named Executive Officers during the fiscal year ended July 31, 2016.

Name	Stock Awards	Value Realized
	Number of Shares Acquired on Vesting	On Vesting⁽¹⁾
Elazar Rabbani Ph.D.	—	—

Barry W. Weiner	—	—
James M. O'Brien	—	—
Dieter Schapfel, M.D.	1,166	\$6,959
Bruce A. Dey	—	—

(1) The value realized is the closing market price on the day the stock awards vest, multiplied by the total number of shares vesting.

Employment Agreements

Mr. Barry Weiner and Dr. Elazar Rabbani (each the “Executive”) are parties to employment agreements with the Company, effective May 4, 1994, as subsequently amended (the “Employment Agreements”). Each Executive also receives a non-equity incentive plan bonus, the amount of which shall be determined by the Compensation Committee and/or the Board of Directors based on approved financial and non-financial objectives. Each Employment Agreement provides that, in the event of termination of employment by the Executive for “good reason,” or a termination of employment by the Company without “cause”, change in control or nonrenewal, as such terms are defined in the Employment Agreement, each Executive shall be entitled to receive: (i) a lump sum in an amount equal to three years of the Executive’s base annual salary; (ii) a lump sum in an amount equal to the annual bonus paid by the Company to the Executive for the last fiscal year of the Company ending prior to the date of termination multiplied by three; (iii) insurance coverage for the Executive and his dependents, at the same level and at the same charges to the Executive as immediately prior to his termination, for a period of three (3) years following his termination from the Company; (iv) all accrued obligations, as defined therein; and (v) with respect to each incentive pay plan (other than stock option or other equity plans) of the Company in which the Executive participated at the time of termination, an amount equal to the amount the Executive would have earned if he had continued employment for three additional years. If the Executive is terminated by reason of his disability, he shall be entitled to receive, for three years after such termination, his base annual salary less any amounts received under a long term disability plan. If the Executive’s employment with the Company is terminated by reason of his death, his legal representatives shall receive the balance of any remuneration due him under the terms of his Employment Agreement. The Employment Agreements currently expire on September 30, 2017, but will automatically renew for successive two year periods unless notice is given to the Company within 180 days of the end of such successive term.

Messrs. James M. O’Brien, Bruce A. Dey and Dr. Dieter Schapfel are “at will” employees and are parties to certain change in control provisions with the Company which is deemed customary practice for their respective positions, as more fully discussed below. Mr. James M. O’Brien is a party to a severance arrangement from his initial employment arrangement.

Benefits and All Other Compensation

We maintain broad-based benefits that are provided to all employees, including health and dental insurance, group life insurance and a 401(k) plan. Named Executive Officers are eligible to participate in our employee benefit plans. The annual Company match for our Named Executive Officers and our employees is up to \$12,000, if over 50 years old, or limited to 50% of the maximum contribution by the Named Executive Officers.

Certain of our Named Executive Officers may be entitled to benefits that are not otherwise available to all of our employees, including supplemental health, life insurance and disability benefits. We do not provide post-retirement health coverage to our Named Executive Officers or our employees. Our health and insurance plans are substantially the same among all management levels at the Company. Dr. Rabbani and Mr. Weiner are provided life insurance benefits in connection with their total compensation arrangements.

In particular circumstances, we may provide relocation allowances when executives first join us. The purpose of this program is to attract talented executives outside our geographic area. Certain named executives are provided use of a Company owned vehicle for business and personal use or provided a car allowance.

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All Other Compensation

The following table contains information regarding each component of “All Other Compensation” in the Summary Compensation Table to the Named Executive Officers for the fiscal years ended July 31, 2016, 2015 and 2014.

Name	Year	401(K) (1)	Life Insurance (2)(3)	Medical and Disability Insurance (4)	Personal Use of Auto (5)	Total All Other Compensation
Elazar Rabbani, Ph.D.	2016	\$12,000	\$144,342	\$10,692	\$22,393	\$189,427
	2015	\$11,500	\$144,342	\$9,636	\$22,393	\$187,871
	2014	\$11,500	\$123,760	\$8,084	\$12,656	\$156,000
Barry W. Weiner	2016	\$12,000	\$133,859	\$5,485	\$9,800	\$161,144
	2015	\$11,500	\$133,859	\$3,121	\$21,300	\$169,780
	2014	\$11,500	\$118,100	\$2,333	\$21,300	\$153,233
James M. O’ Brien	2016	\$9,000	\$457	—	\$10,200	\$19,657
	2015	\$8,750	\$374	—	\$10,200	\$19,324
	2014	—	\$138	—	\$4,250	\$4,388
Dieter Schapfel, M.D. ⁽⁶⁾	2016	\$12,000	\$531	—	—	\$12,531
	2015	\$7,912	\$595	—	—	\$8,506
Bruce A. Dey	2016	\$12,000	\$993	—	\$9,600	\$22,593
	2015	\$11,500	\$1,032	—	\$9,600	\$22,132
	2014	\$11,500	\$1,032	—	\$9,600	\$22,132

(1) Represents Company matches under our 401(k) plan.

(2) Represents premiums of term policies of which the Named Executive Officers or other party is the beneficiary.

(3) Includes the contractual payment for life insurance reimbursement for Dr. Rabbani and Mr. Weiner of \$110,582 and \$105,759, respectively.

(4) Represents incremental medical and disability benefits costs.

(5) Represents the personal use of Company-provided auto or car allowance.

(6) Hire date June 30, 2014.

Severance and Change in Control Benefits

Pursuant to Employment Agreements/Arrangements entered into with Dr. Rabbani and Messrs. Barry Weiner and James O’Brien, these executives are entitled to specified benefits in the event of the termination of their employment under specified circumstances, including termination following a change of ownership or control of our Company. We have provided more information about these benefits, along with estimates of their value under various circumstances within the below table.

Based on market trends, we believe these benefits help us compete for executive talent. We believe our severance and change in control benefits are in line with severance packages offered to executives by the companies identified in our peer group.

Our practice in the case of change in control benefits has been structured to trigger only in the event of a termination of the executive without cause or by the executive for good reason during a specified period before or after the change in control.

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Potential Payments Upon Termination or Change in Control

The following table contains information regarding each component of Potential Payments Upon Termination or Change in Control Compensation Table to the Named Executive Officers as of July 31, 2016.

See the above section captioned “Employment Agreements” for a summary of the termination and change in control terms.

Name and Principal Position	Acceleration of Vesting	Severance Pay⁽¹⁾	Continuation of Benefits	Tax Gross-Up	Total
Elazar Rabbani, Ph.D.					
Termination without cause or by Executive for Good Reason	\$238,623	\$3,123,180	\$718,374	—	\$4,080,177
Change in control transaction without termination	—	—	—	—	—
Change in control transaction with termination	\$238,623	\$3,123,180	\$718,374	\$1,591,008	\$5,671,185
Barry W. Weiner					
Termination without cause or by Executive for Good Reason	\$196,133	\$2,590,401	\$686,925	—	\$3,473,459
Change in control transaction without termination	—	—	—	—	—
Change in control transaction with termination	\$193,133	\$2,590,401	\$686,925	\$1,371,605	\$4,845,064
James M. O’Brien					
Termination without cause or by Executive for Good Reason	—	\$152,500	—	—	\$152,500
Change in control transaction without termination	—	—	—	—	—
Change in control transaction with termination	\$131,951	\$152,500	—	—	\$284,451
Dieter Schapfel, M.D.					
Termination without cause or by Executive for Good Reason	—	—	—	—	—
Change in control transaction without termination	—	—	—	—	—
Change in control transaction with termination	\$102,674	—	—	—	\$102,674
Bruce A. Dey					
Termination without cause or by Executive for Good Reason	—	—	—	—	—
Change in control transaction without termination	—	—	—	—	—
Change in control transaction with termination	\$54,880	—	—	—	\$54,880

(1)The amounts listed in this column do not include accrued amounts such as accrued salary or vacation.

Tax and Accounting Considerations

Federal tax laws impose requirements in order for compensation payable to the CEO and certain executive officers to be fully deductible. The Company believes it has taken appropriate actions to maximize its income tax deduction. IRC Section 162(m) generally precludes a public corporation from taking a deduction for compensation in excess of \$1,000,000 for its CEO or any of its three other highest-paid executive officers (other than the CEO or Chief Financial Officer), unless certain specific and detailed criteria are satisfied.

Annually, the Company reviews all compensation programs and payments to determine the tax impact on the Company as well as on the executive officers. In addition, the Company reviews the impact of its programs against other considerations, such as accounting impact, shareholder alignment, market competitiveness, effectiveness and perceived value to employees. Because many different factors influence a well-rounded, comprehensive executive compensation program, some compensation may not be deductible under IRC Section 162(m). The Company will continue to monitor developments and assess alternatives for preserving the deductibility of compensation payments and benefits to the extent reasonably practicable, consistent with its compensation policies and as determined to be in the best interests of the Company and its shareholders.

COMPENSATION COMMITTEE REPORT

The Compensation Committee has reviewed and discussed the Compensation Discussion and Analysis in this proxy report with management. Based on its review and discussion with management, the Compensation Committee recommended to our Board of Directors that the Compensation Discussion and Analysis be included in this proxy statement and also be incorporated by reference in our Annual Report on Form 10-K for the fiscal year ended July 31, 2016.

Dr. Bernard L. Kasten, Chairman
Gregory M. Bortz
Dov Perlysky

COMPENSATION COMMITTEE INTERLOCKS AND INSIDER PARTICIPATION

No member of the Compensation Committee has a relationship that would constitute an interlocking relationship with the Company's executive officers or other Directors.

SECURITIES AUTHORIZED FOR ISSUANCE UNDER EQUITY COMPENSATION PLANS

The following table sets forth information regarding our existing equity compensation plans as of July 31, 2016:

Plan Category	(A) Number of Securities to be Issued Upon Exercise of Outstanding	(B) Weighted Average Exercise Price of	(C) Number of Securities Remaining Available for Future Issuance
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	Options, Warrants and Rights	Outstanding Options	Under Equity Compensation Plans (Excluding Securities Reflected in Column A)⁽²⁾
Equity compensation plans approved by security holders	1,817,376	\$3.43	818,000
Equity compensation plans not approved by security holders	—	—	—
Total	1,817,376	\$3.43	818,000

(1) Shares to be issued upon exercise of options or restricted stock awards under the 2011 plan.

(2) Shares available for grant under the 2011 plan.

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PROPOSAL 2

ADVISORY VOTE ON THE COMPANY'S NAMED EXECUTIVE

OFFICER COMPENSATION

The Exchange Act, and more specifically, Section 14A of the Exchange Act which was added under the Dodd-Frank Wall Street Reform and Consumer Protection Act, enacted in July 2010, requires that we provide stockholders with the opportunity to vote to approve, on a nonbinding advisory basis, the compensation of our Named Executive Officers as disclosed in this Proxy Statement in accordance with the SEC's rules (commonly referred to as "Say-on-Pay").

At our 2011 annual meeting of stockholders, a majority of our stockholders who voted supported an annual vote on our executive compensation and, in response, our Compensation Committee determined to hold an annual vote on the matter.

Our compensation program for Named Executive Officers is intended to link compensation to performance; to provide competitive compensation levels to attract retain and reward executives; and to align management's interests with those of our clients and stockholders. The compensation provided to the Named Executive Officers is dependent on the Company's financial, operational and strategic performance, and the Named Executive Officer's individual performance, and is intended to drive creation of long-term shareholder value.

We encourage stockholders to read the "Compensation Discussion and Analysis" section of this Proxy Statement, the 2016 Summary Compensation Table and the other related tables and disclosure for a detailed description of the fiscal year 2016 compensation of our Named Executive Officers. The Compensation Committee and the Board believe that the policies and procedures articulated in the "Compensation Discussion and Analysis" are effective in achieving our goals and that the compensation of our Named Executive Officers reported in this Proxy Statement appropriately reflects our results during the fiscal year.

The vote on this resolution is not intended to address any specific element of compensation; rather, the advisory vote relates to the overall compensation of our Named Executive Officers. This vote is advisory, which means that it is not binding on the Company, the Board or the Compensation Committee of the Board. However, we value the opinion of our stockholders and the Board and the Compensation Committee will review the voting results and will take into account the outcome of the vote when considering future compensation decisions for the Named Executive Officers.

Accordingly, we ask our stockholders to vote on the following resolution:

“RESOLVED, that the Company’s stockholders approve, on a nonbinding advisory basis, the compensation paid to the Company’s Named Executive Officers, as disclosed in the Company’s Proxy Statement for the 2016 Annual Meeting of Stockholders pursuant to the compensation disclosure rules of the Securities and Exchange Commission, including the Compensation Discussion and Analysis, the Summary Compensation table and the related compensation tables and narrative discussion.”

THE BOARD OF DIRECTORS OF THE COMPANY UNANIMOUSLY RECOMMENDS THAT YOU VOTE “FOR” APPROVING THE NAMED EXECUTIVE OFFICER COMPENSATION AS DISCLOSED IN THIS PROXY STATEMENT PURSUANT TO THE COMPENSATION DISCLOSURE RULES OF THE SEC.

PROPOSAL 3**RATIFICATION OF APPOINTMENT OF INDEPENDENT REGISTERED PUBLIC****ACCOUNTING FIRM**

The Audit Committee of the Board has selected and the Board has appointed EisnerAmper LLP, an independent registered public accounting firm (“EisnerAmper”), to audit the Company’s financial statements for the fiscal year ending July 31, 2017. The Company is submitting its selection of EisnerAmper for ratification by the shareholders at the Annual Meeting. A representative of EisnerAmper, is expected to be present at the Annual Meeting, will have the opportunity to make a statement and is expected to be available to respond to appropriate questions. EisnerAmper has served as our independent registered public accounting firm since April 19, 2013.

Although the selection and appointment of independent registered public accounting firm is not required to be submitted to a vote of shareholders, the Board deems it desirable to obtain the shareholders’ ratification and approval of this appointment. If the appointment is not ratified by shareholders, the adverse vote will be considered as an indication to the Audit Committee that it should consider selecting another independent registered public accounting firm for the following fiscal year but it is not required to do so. Even if the appointment is ratified, the Audit Committee, in its discretion, may select a new independent registered public accounting firm at any time during the year if it believes that such a change would be in the Company’s best interest.

In making its recommendation to ratify the appointment of EisnerAmper LLP as the Company’s independent registered public accounting firm for the fiscal year ending July 31, 2017, the Audit Committee has considered whether the services provided by EisnerAmper are compatible with maintaining the independence of EisnerAmper.

Principal Accountant Fees and Services

EisnerAmper billed the Company for services for fiscal 2016 and 2015, as set forth in the table below. The fees listed are aggregate fees for services performed for the year, regardless of when the fee was actually billed.

	FY 2016	FY 2015
Audit Fees	\$512,000	\$561,350
Audit-related Fees	\$31,000	\$ 62,000
Tax Fees	—	—
All Other Fees.	\$33,500	\$ 62,500
Total	\$576,500	\$685,850

Audit Fees—Consists of fees for professional services necessary to perform an audit or review in accordance with the Public Company Accounting Oversight Board, including services rendered for the audit of our annual financial statements (including services incurred with rendering an opinion under Section 404 of the Sarbanes-Oxley Act of 2002) and quarterly reviews of the Company’s interim financial statements.

Audit-Related Fees—Audit related fees associated with comfort letters and other correspondence.

All Other Fees—EisnerAmper performed certain Audit services for an employee benefit plan for the years ended December 31, 2015 and 2014, for which the Company is the plan sponsor; these fees were \$33,500 and \$37,000 respectively. In addition, during fiscal year 2015 and 2014, EisnerAmper performed a review of registration statements related to issuance of equity with total fees of \$31,000 and \$25,500, respectively.

Pre-Approval Policies and Procedures—The Audit Committee has adopted a policy that requires advance approval of all audit, audit-related, tax services, and other services performed by the independent registered public accounting firm. The policy provides for pre-approval by the Audit Committee of specifically defined audit and non-audit services. Unless the specific service has been previously pre-approved with respect to that year, the Audit Committee must approve the permitted service before the independent auditor is engaged to perform it. The Audit Committee has delegated to the Chair of the Audit Committee authority to approve permitted services provided that the Chair reports any decisions to the Audit Committee at its next scheduled meeting.

THE BOARD OF DIRECTORS OF THE COMPANY UNANIMOUSLY RECOMMENDS A VOTE “FOR” PROPOSAL 3 RELATING TO THE RATIFICATION OF THE COMPANY’S APPOINTMENT OF EISNERAMPER LLP TO SERVE AS THE COMPANY’S INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM FOR THE FISCAL YEAR ENDING JULY 31, 2017.

OTHER MATTERS

Except as discussed in this Proxy Statement, the Board does not know of any matters that are to be properly presented at the Annual Meeting other than those stated in the Notice of 2016 Annual Meeting of Shareholders and referred to in this Proxy Statement.

If other matters properly come before the Annual Meeting, it is the intention of the persons named in the enclosed proxy card to vote thereon in accordance with their best judgment. Moreover, the Board reserves the right to adjourn or postpone the Annual Meeting for failure to obtain a quorum, for legitimate scheduling purposes or based on other circumstances that, in the Board's belief, would cause such adjournments or postponements to be in the best interests of all Enzo shareholders

ANNUAL REPORT

The Notice that you received in the mail contains instructions on how to access both the Company's 2016 Annual Report to Shareholders, which includes the Company's Annual Report on Form 10-K for its fiscal year ended July 31, 2016 and this Proxy Statement.

The Company will provide, without charge to each person being solicited by this Proxy Statement, upon request, a copy of its 2016 Annual Report to Shareholders, which includes the Company's Annual Report on Form 10-K for its fiscal year ended July 31, 2016. Upon payment of a reasonable fee, shareholders may also obtain a copy of the exhibits to our Annual Report on Form 10-K for our fiscal year ended July 31, 2016. All such requests should be directed to Barry W. Weiner, President, Enzo Biochem, Inc., 527 Madison Avenue, New York, New York 10022.

ENZO WEBSITE

In addition to the information about the Company and its subsidiaries contained in this Proxy Statement, additional information about the Company can be found on our website located at www.enzo.com, including information about our management team, products and services and our corporate governance practices.

The corporate governance information on our website includes the Company's Corporate Governance Guidelines, the Code of Conduct and the charters of each of the Committees of the Board. These documents can be accessed at www.enzo.com. Printed versions of our Corporate Governance Guidelines, our Code of Conduct and the charters for our Board Committees can be obtained, free of charge, by writing to the Company at: 527 Madison Avenue, New

York, New York 10022, Attn: President.

This information about Enzo's website and its content, together with other references to the website made in this Proxy Statement, is for information only and the content of the Company's website is not deemed to be incorporated by reference in this Proxy Statement or otherwise filed with the Securities and Exchange Commission.

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SHAREHOLDER PROPOSALS

Shareholder Proposals

Proposals of shareholders intended to be included in the Company's Proxy Statement and form of proxy for use in connection with the Company's 2017 Annual Shareholder Meeting must be received by the Company's Secretary at the Company's principal executive offices at 527 Madison Avenue, New York, New York 10022, no later than July 28, 2017 (120 calendar days preceding the one-year anniversary of the date this Proxy Statement was first mailed to our shareholders for the 2016 Annual Shareholder Meeting), and must otherwise satisfy the procedures prescribed by Rule 14a-8 under the Exchange Act. It is suggested that any such proposals be submitted by certified mail, return receipt requested.

Pursuant to Rule 14a-4 under the Exchange Act, shareholder proxies obtained by our Board in connection with our 2016 Annual Shareholder Meeting will confer on the proxies and attorneys-in-fact named therein discretionary authority to vote on any matters presented at the annual meeting which were not included in the Company's Proxy Statement in connection with such annual meeting, unless notice of the matter to be presented at the annual meeting is provided to the Company's Secretary before October 11, 2017 (the 45th day preceding the one-year anniversary of the date this Proxy Statement was first mailed to our shareholders for the 2016 Annual Shareholder Meeting).

Director Nominations

Under our Bylaws, shareholders intending to nominate one or more candidates for election to our Board at our 2016 Annual Shareholder Meeting may do so only if written notice of the intent to make such nomination(s) has been given, either by personal delivery or by United States mail, postage prepaid, to the Secretary of the Company, at the Company's principal executive offices at 527 Madison Avenue, New York, New York 10022, not less than ninety (90) days nor more than one hundred twenty (120) days prior to the earlier of the date of such annual meeting or January 5, 2017. Such notice must contain all of the information required by our Bylaws, including, without limitation, all information that would be required in connection with such nomination(s) under the Securities and Exchange Commission's proxy rules if such nomination were the subject of a proxy solicitation and the written consent of each nominee for election to our Board named therein to serve if elected. The chairman of the meeting may refuse to acknowledge the nomination of any person not made in compliance with our Bylaws.

ENZO BIOCHEM, INC.

527 MADISON AVENUE

NEW YORK, NY 10022

VOTE BY INTERNET - www.proxyvote.com

Use the Internet to transmit your voting instructions and for electronic delivery of information up until 11:59 P.M. Eastern Time the day before the cut-off date or meeting date. Have your proxy card in hand when you access the web site and follow the instructions to obtain your records and to create an electronic voting instruction form.

ELECTRONIC DELIVERY OF FUTURE PROXY MATERIALS

If you would like to reduce the costs incurred by our company in mailing proxy materials, you can consent to receiving all future proxy statements, proxy cards and annual reports electronically via e-mail or the Internet. To sign up for electronic delivery, please follow the instructions above to vote using the Internet and, when prompted, indicate that you agree to receive or access proxy materials electronically in future years.

VOTE BY PHONE - 1-800-690-6903

Use any touch-tone telephone to transmit your voting instructions up until 11:59 P.M. Eastern Time the day before the cut-off date or meeting date. Have your proxy card in hand when you call and then follow the instructions.

VOTE BY MAIL

Mark, sign and date your proxy card and return it in the postage-paid envelope we have provided or return it to Vote Processing, c/o Broadridge, 51 Mercedes Way, Edgewood, NY 11717.

TO VOTE, MARK BLOCKS BELOW IN BLUE OR BLACK INK AS FOLLOWS:

KEEP THIS PORTION FOR YOUR RECORDS
DETACH AND RETURN THIS PORTION ONLY

THIS PROXY CARD IS VALID ONLY WHEN SIGNED AND DATED.

**For Withhold For All
All All Except**

To withhold authority to vote for any individual nominee(s), mark "For All Except" and write the number(s) of the nominee(s) on the line below.

The Board of Directors recommends you vote FOR the following:

Election
1. of
Directors
Nominees:
Barry
01 W02 Bruce A. Hanna, Ph.D
Weiner

The Board of Directors recommends you vote FOR proposal 2 and 3.

For Against Abstain

2 To approve, in a nonbinding advisory vote, the compensation of the Company's named executive officers.

To ratify the appointment of EisnerAmper LLP as the
3 Company's independent registered public accounting firm for o o o
the Company's fiscal year ending July 31, 2017.

NOTE: In their discretion, the Proxies are authorized to vote upon such other business as may properly come before the Annual Meeting. This proxy when properly executed will be voted in the manner directed herein by the undersigned shareholder. If no direction is made, this proxy will be voted FOR the election of the nominees for Class II Director named in Proposal 1 in this proxy card, and FOR each of Proposals 2 and 3 in this proxy card.

For address change/comments, mark here. o
(see reverse for instructions)

Please sign exactly as your name(s) appear(s) hereon. When signing as attorney, executor, administrator, or other fiduciary, please give full title as such. Joint owners should each sign personally. All holders must sign. If a corporation or partnership, please sign in full corporate or partnership name by authorized officer.

Signature
[PLEASE
SIGN Date Signature (Joint Owners) Date
WITHIN
BOX]

Important Notice Regarding the Availability of Proxy Materials for the Annual Meeting: The Notice & Proxy Statement, Annual Report, Telephone/Internet insert (BR supplied) is/are available at www.proxyvote.com

PROXY

ENZO BIOCHEM, INC.

527 MADISON AVENUE

NEW YORK, NEW YORK 10022

THIS PROXY IS SOLICITED ON BEHALF OF THE BOARD OF DIRECTORS

The undersigned hereby appoints Elazar Rabbani, Ph.D. and Gregory Bortz as Proxies, each with the power to appoint his substitute, and hereby authorizes them to represent and to vote, as designated on the reverse side, all the shares of the Common Stock of Enzo Biochem, Inc. held of record by the undersigned on November 15, 2016 at the Annual Meeting of Shareholders to be held on January 5, 2017 or at any adjournment or postponement thereof.

The shares represented by this proxy, when properly executed and returned, will be voted as directed herein. IF THIS PROXY IS DULY EXECUTED AND RETURNED, AND NO VOTING DIRECTIONS ARE GIVEN HEREIN,

SUCH SHARES WILL BE VOTED “FOR” ELECTION OF THE NOMINEES FOR CLASS II DIRECTOR NAMED IN PROPOSAL 1 IN THIS PROXY CARD, AND “FOR” EACH OF PROPOSALS 2 AND 3 IN THIS PROXY CARD. The undersigned hereby acknowledges receipt of notice of, and the proxy statement for, the aforesaid Annual Meeting of Shareholders.

**Address
Change /
comments
:**

(If you noted any Address Changes and/or Comments above, please mark corresponding box on the reverse side.)

Continued and to be signed on reverse side