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UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 14A

Proxy Statement Pursuant to Section 14(a) of
the Securities Exchange Act of 1934 (Amendment No.)

Filed by the Registrant

Filed by a Party other than the Registrant

Check the appropriate box:

- Preliminary Proxy Statement
- Confidential, for Use of the Commission Only (as permitted by Rule 14a-6(e)(2))**
- Definitive Proxy Statement
- Definitive Additional Materials
- Soliciting Material under §240.14a-12

Metabolix, Inc.

(Name of Registrant as Specified In Its Charter)

(Name of Person(s) Filing Proxy Statement, if other than the Registrant)

Payment of Filing Fee (Check the appropriate box):

- No fee required.
- Fee computed on table below per Exchange Act Rules 14a-6(i)(1) and 0-11.
- (1) Title of each class of securities to which transaction applies: _____
- (2) Aggregate number of securities to which transaction applies: _____
- (3) Per unit price or other underlying value of transaction computed pursuant to Exchange Act Rule 0-11 (set forth the amount on which the filing fee is calculated and state how it was determined): _____
- (4) Proposed maximum aggregate value of transaction: _____
- (5) Total fee paid: _____
- Fee paid previously with preliminary materials.
- Check box if any part of the fee is offset as provided by Exchange Act Rule 0-11(a)(2) and identify the filing for which the offsetting fee was paid previously. Identify the previous filing by registration statement number, or the Form or Schedule and the date of its filing.
- (1) Amount Previously Paid: _____
- (2) Form, Schedule or Registration Statement No.: _____
- (3) Filing Party: _____
- (4) Date Filed: _____
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METABOLIX, INC.

21 Erie Street
Cambridge, Massachusetts 02139
(617) 583-1700

NOTICE OF SPECIAL MEETING OF STOCKHOLDERS

TO BE HELD ON OCTOBER 30, 2014

To the Stockholders of Metabolix, Inc.:

A Special Meeting of Stockholders of Metabolix, Inc., a Delaware corporation (the "**Company**"), will be held on Thursday, October 30, 2014, at 9:30 a.m., Eastern time, at the offices of Goodwin Procter LLP at Exchange Place, 53 State Street, Boston, MA 02109, for the following purposes:

1. To approve an amendment to the Company's Certificate of Incorporation to increase the number of authorized shares of the Company's common stock, par value \$0.01 per share ("**Common Stock**") from 100,000,000 to 250,000,000;
2. To authorize the Board of Directors of the Company to further amend the Company's Certificate of Incorporation to effect a reverse stock split of the Common Stock by a ratio in the range of 1-for-2 to 1-for-10, with the Board of Directors having the discretion as to whether or not the reverse split is to be effected, and with the exact ratio of any reverse split to be set at a whole number within the above range, as determined by the Board of Directors in its discretion; provided that the reverse split must be effected, if at all, no later than December 31, 2015;
3. To approve the Company's 2014 Stock Option and Incentive Plan; and
4. To transact such other business as may properly come before the Special Meeting and any adjournments or postponements thereof.

Only stockholders of record at the close of business on October 1, 2014, are entitled to notice of and to vote at the Special Meeting and at any adjournment or postponement thereof.

All stockholders are cordially invited to attend the Special Meeting in person. However, to assure your representation at the Special Meeting, we urge you, whether or not you plan to attend the Special Meeting, to complete, sign, date and mail promptly the enclosed proxy which is being solicited on behalf of the Board of Directors so that your shares will be represented at the Special Meeting. A return envelope which requires no postage if mailed in the United States is enclosed for that purpose. You need to vote in accordance with the instructions listed on the proxy card. If shares are held in a bank or brokerage account, you may be eligible to vote electronically or by telephone. Please refer to the enclosed voting instruction form for instructions. If you attend the Special Meeting, you may vote in person even if you have previously returned your proxy card.

By Order of the Board of Directors,

A handwritten signature in black ink that reads "Sarah P. Cecil".

SARAH P. CECIL
Secretary

Cambridge, Massachusetts
October 10, 2014

WHETHER OR NOT YOU EXPECT TO ATTEND THE SPECIAL MEETING, PLEASE COMPLETE, SIGN, DATE AND MAIL PROMPTLY THE ENCLOSED PROXY WHICH IS BEING SOLICITED ON BEHALF OF THE BOARD OF DIRECTORS SO THAT YOUR SHARES WILL BE REPRESENTED AT THE SPECIAL MEETING. A RETURN ENVELOPE WHICH REQUIRES NO POSTAGE IF MAILED IN THE UNITED STATES IS ENCLOSED FOR THAT PURPOSE. YOU NEED TO VOTE IN ACCORDANCE WITH THE INSTRUCTIONS LISTED ON THE PROXY CARD. IF SHARES ARE HELD IN A BANK OR BROKERAGE ACCOUNT, YOU MAY BE ELIGIBLE TO VOTE ELECTRONICALLY OR BY TELEPHONE. PLEASE REFER TO THE ENCLOSED VOTING INSTRUCTION FORM FOR INSTRUCTIONS.

IN ACCORDANCE WITH OUR SECURITY PROCEDURES, ALL PERSONS ATTENDING THE SPECIAL MEETING WILL BE REQUIRED TO PRESENT PICTURE IDENTIFICATION.

METABOLIX, INC.

**21 Erie Street
Cambridge, Massachusetts 02139**

**PROXY STATEMENT
For the Special Meeting of Stockholders
To Be Held on October 30, 2014**

October 10, 2014

Proxies in the form enclosed with this Proxy Statement are solicited by the Board of Directors of Metabolix, Inc., a Delaware corporation ("**Metabolix**" or the "**Company**"), for use at the Special Meeting of Stockholders of Metabolix to be held on Thursday, October 30, 2014, at 9:30 a.m., Eastern time, or at any adjournments or postponements thereof (the "**Special Meeting**") at the offices of Goodwin Procter LLP at Exchange Place, 53 State Street, Boston, MA 02109. This Proxy Statement and the form of proxy were first sent or given to stockholders on or about October 14, 2014.

The purpose of the Special Meeting is:

1. To approve an amendment to the Company's Certificate of Incorporation to increase the number of authorized shares of the Company's common stock, par value \$0.01 per share ("**Common Stock**") from 100,000,000 to 250,000,000;
2. To authorize the Board of Directors of the Company to further amend the Company's Certificate of Incorporation to effect a reverse stock split of the Common Stock by a ratio in the range of 1-for-2 to 1-for-10, with the Board of Directors having the discretion as to whether or not the reverse split is to be effected, and with the exact ratio of any reverse split to be set at a whole number within the above range, as determined by the Board of Directors in its discretion; provided that the reverse split must be effected, if at all, no later than December 31, 2015; and
3. To approve the Company's 2014 Stock Option and Incentive Plan.
4. To transact such other business as may properly come before the Special Meeting and any adjournments or postponements thereof.

Only stockholders of record at the close of business on October 1, 2014 (the "**Record Date**") will be entitled to receive notice of and to vote at the Special Meeting. As of the Record Date, [] shares of Common Stock were issued, outstanding and entitled to vote.

VOTING

The holders of Common Stock are entitled to one vote per share on any proposal presented at the Special Meeting. Stockholders may vote in person or by proxy. Stockholders may vote by proxy by completing, signing, dating and returning the accompanying proxy card in the postage-prepaid envelope

enclosed for that purpose in accordance with the instructions listed on the proxy card. Execution of a proxy will not in any way affect a stockholder's right to attend the Special Meeting and vote in person.

Any proxy given pursuant to this solicitation may be revoked by the person giving it any time before the taking of the vote at the Special Meeting. Proxies may be revoked by (1) filing with the Secretary of Metabolix, before the taking of the vote at the Special Meeting, a written notice of revocation bearing a later date than the proxy, (2) duly executing a later-dated proxy relating to the same shares and delivering it to the Secretary of Metabolix, in accordance with the instructions listed on the proxy card, before the taking of the vote at the Special Meeting, or (3) if shares are held in a bank or brokerage account and if eligible, by transmitting a subsequent vote over the Internet or by telephone, or (4) attending the Special Meeting and voting in person (although attendance at the Special Meeting will not in and of itself constitute a revocation of a proxy). Any written notice of revocation or subsequent proxy should be sent to Metabolix, Inc., 21 Erie Street, Cambridge, MA 02139, Attention: Secretary, so as to be delivered before the taking of the vote at the Special Meeting.

If your shares are held by a broker on your behalf (that is, in "street name"), you may be required to present an account statement or letter from your bank or brokerage firm showing that you are the beneficial owner of the shares as of the Record Date in order to be admitted to the meeting on October 30, 2014. To be able to vote your shares held in street name at the meeting, you will need to obtain a proxy from the holder of record.

The persons named as attorneys-in-fact in the proxies, Joseph Shaulson and Joseph D. Hill, were selected by the Board of Directors and are officers of the Company. All properly executed proxies returned in time to be counted at the Special Meeting will be voted by such persons at the Special Meeting as stated below. When a choice has been specified on the proxy with respect to a matter, the shares represented by the proxy will be voted in accordance with the specifications. If a proxy is submitted without giving voting instructions, such shares will be voted:

- FOR the increase in the number of shares of authorized Common Stock,
- FOR authorizing the Board of Directors to effect a reverse stock split,
- FOR the approval of the 2014 Stock Option and Incentive Plan, and
- as the persons named as proxies may determine in their discretion with respect to any other matters properly presented at the meeting.

The representation in person or by proxy of at least a majority of the outstanding shares of Common Stock entitled to vote at the Special Meeting is necessary to constitute a quorum for the transaction of business. Abstentions and broker "non-votes" are counted as present or represented for purposes of determining the presence or absence of a quorum for the Special Meeting. A "non-vote" occurs when a nominee holding shares for a beneficial owner votes on one proposal but does not vote on another proposal because, with respect to such other proposal, the nominee does not have discretionary voting power and has not received instructions from the beneficial owner.

If your shares are held in street name, and you do not instruct the broker as to how to vote your shares on Proposal 1, Proposal 2 or Proposal 3, the broker may not exercise discretion to vote for or against that proposal. This would be a "broker non-vote" and these shares will not be counted as having been voted on that proposal. **Please vote your proxy so your vote can be counted.**

Required Vote. The affirmative vote of a majority of the shares of Common Stock cast by the stockholders present in person or represented by proxy at the Special Meeting is required to approve each proposal. Shares voted to abstain are included in the number of shares present or represented and voting on that proposal.

Other Matters. The Board knows of no other matters to be presented at the Special Meeting. If any other matter should be presented at the Special Meeting upon which a vote properly may be taken, the affirmative vote of the majority of shares present, in person or represented by proxy, and voting on that matter is required for approval and all such shares represented by proxies received by the Board will be voted with respect thereto in accordance with the judgment of the persons named as attorneys in the proxies. Shares voted to abstain are included in the number of shares present or represented and voting on each matter.

Important Notice Regarding the Availability of Proxy Materials for the Special Meeting: The proxy statement is available for viewing, printing and downloading at <http://ir.metabolix.com/index.cfm>.

SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT

The following table sets forth certain information regarding beneficial ownership of the Company's Common Stock and Series B Convertible Preferred Stock, \$0.01 par value per share ("**Series B Preferred Stock**"), as of September 1, 2014: (i) by each person known to us to be the beneficial owner of more than 5% of our outstanding shares of Common Stock; (ii) by each of our directors; (iii) by each of our named executive officers; and (iv) by all of our directors and executive officers as a group. Unless otherwise noted below, the address of each person listed on the table is c/o Metabolix, Inc., 21 Erie Street, Cambridge, Massachusetts 02139.

Beneficial Owner	Shares of Common Stock(1)	Options Exercisable Within 60 Days(2)	Total Common Shares Beneficially Owned	Percentage of Outstanding Common Stock(3)	Shares of Series B Preferred Stock(4)	Percentage of Outstanding Series B Preferred Stock
5% Stockholders:						
Jack W. Schuler(6) 28161 North Keith Drive Lake Forest, Illinois 60045	28,440,695	—	28,440,695	33.4%	23,400	46.8%
William P. Scully(7) 771 Manatee Cove Vero Beach, FL 32963	9,600,000	—	9,600,000	11.3%	8,000	16.0%
Larry N. Feinberg(8) 200 Greenwich Avenue, 3 rd Floor Greenwich, CT 06830	5,472,971	—	5,472,971	6.4%	4,000	8.0%
Director and Named Executive Officers:						
Peter N. Kellogg	—	115,000	115,000	*	—	—
Celeste Beeks Mastin	—	65,000	65,000	*	—	—
Oliver P. Peoples(9)	792,571	522,377	1,314,948	1.5%	400	0.8%
Joseph Shaulson(10)	250,000	—	250,000	*	—	—
Anthony J. Sinskey(11)	359,346	115,000	474,346	*	—	—
Matthew Strobeck(12)	6,835,614	65,000	6,900,614	8.1%	—	—
Robert L. Van Nostrand	20,000	115,000	135,000	*	—	—
Richard P. Eno(13)	40,854	464,460	505,314	*	—	—
Joseph D. Hill(14)	17,771	275,311	293,082	*	—	—
Johan van Walsem(15)	358,637	365,936	724,573	*	300	0.6%
Lynne H. Brum(16)	29,684	47,812	77,496	*	—	—
All Directors and executive officers as a group (11 persons)(17)	8,688,688	1,934,332	10,623,020	12.5%	700	1.4%

* less than 1%.

(1) Beneficial ownership, as such term is used herein, is determined in accordance with Rule 13d-3(d)(1) promulgated under the Securities Exchange Act of 1934, as amended, and includes voting and/or investment power with respect to shares of our Common Stock. Unless

otherwise indicated, the named person possesses sole voting and investment power with respect to the shares.

- (2) Consists of shares of Common Stock subject to stock options held by the person that are currently exercisable or exercisable within 60 days after September 1, 2014.
- (3) Percentages of ownership are based upon 85,094,640 shares of Common Stock issued and outstanding as of September 1, 2014. Shares of Common Stock that may be acquired pursuant to options that are exercisable within 60 days after September 1, 2014 are deemed outstanding for computing the percentage ownership of the person holding such options, but are not deemed outstanding for the percentage ownership of any other person.
- (4) Beneficial ownership, as such term is used herein, is determined in accordance with Rule 13d-3(d)(1) promulgated under the Securities Exchange Act of 1934, as amended, and includes voting and/or investment power with respect to shares of our Series B Preferred Stock. Unless otherwise indicated, the named person possesses sole voting and investment power with respect to the shares. If Proposal 1 is approved at the Special Meeting, the shares of Series B Preferred Stock will automatically convert into Common Stock upon the filing and acceptance of a charter amendment with the Secretary of State of the State of Delaware to increase the authorized number of shares of Common Stock to not less than 150,000,000. Each share of Series B Preferred Stock will convert into 1,000 shares of Common Stock, subject to adjustment in the event of certain corporate transactions.
- (5) Percentages of ownership are based upon 50,000 shares of Series B Preferred Stock issued and outstanding as of September 1, 2014.
- (6) Consists of (i) 3,124,876 shares of Common Stock owned by Jack W. Schuler, (ii) 50,600 shares of Common Stock owned by Renate Schuler, and (iii) 25,315,819 shares of Common Stock and 23,400 shares of Series B Preferred Stock owned by the Schuler Family Foundation. Information regarding Mr. Schuler is based solely on a Schedule 13D filed with the SEC on August 29, 2014. According to such Schedule 13D, Mr. Schuler reported sole voting and dispositive power as to 3,124,876 shares of Common Stock and shared voting and dispositive power as to 25,315,819 shares of Common Stock and 23,400 shares of Series B Preferred Stock. Renate Schuler reported sole voting and dispositive power as to 50,600 shares of Common Stock and shared voting and dispositive power as to 25,315,819 shares of Common Stock and 23,400 shares of Series B Preferred Stock. The Schuler Family Foundation reported sole voting and dispositive power as to 25,315,819 shares of Common Stock and 23,400 shares of Series B Preferred Stock.
- (7) Information regarding William P. Scully is based solely on a Schedule 13D filed with the SEC on August 29, 2014. According to such Schedule 13D, Mr. Scully reported sole voting power and sole dispositive power as to all of the shares.
- (8) Information regarding Larry N. Feinberg is based solely on a Schedule 13G filed with the SEC on August 29, 2014. According to such Schedule 13G, Mr. Feinberg reported sole voting power and sole dispositive power as to all of the shares.
- (9) Includes 26,283 shares of Common Stock held for Dr. Peoples in the Company's 401(k) plan.
- (10) Consists of 250,000 shares of Common Stock purchased by Mr. Shaulson pursuant to his employment contract, subject to a holding period that will expire upon the earliest of: (i) January 28, 2015; (ii) a Change of Control of the Company (as defined in Mr. Shaulson's employment contract); (iii) Mr. Shaulson's resignation from employment for any reason; or (iv) the termination of his employment by the Company without Cause (also as defined in his employment contract).

- (11) Includes 49,346 shares of Common Stock owned by Dr. Sinskey's spouse and 10,000 shares of Common Stock owned by a trust over which Dr. Sinskey may be deemed to share voting and investment power. Dr. Sinskey disclaims beneficial ownership of such shares.
- (12) Consists of (i) 4,505,000 shares of Common Stock and 3,800 shares of Series B Preferred Stock owned by Dr. Strobeck; (ii) 2,000,000 shares of Common Stock and 2,000 shares of Series B Preferred Stock owned by Birchview Fund, LLC; (iii) 200,000 shares of Common Stock and 200 shares of Series B Preferred Stock held by Dr. Strobeck as custodian for his children; (iv) 89,695 shares of Common Stock held by Dr. Strobeck's spouse as custodian for their children; and (v) 40,919 shares of Common Stock held indirectly by a trust for the benefit of Dr. Strobeck's children. Dr. Strobeck is a trustee of the trust. According to a Schedule 13D filed with the SEC on August 29, 2014, Dr. Strobeck reported sole voting power and sole dispositive power as to all of the shares. Dr. Strobeck disclaims beneficial ownership of the shares owned by Birchview Fund, LLC, and the shares held by Dr. Strobeck and his spouse as custodians for their children. He disclaims beneficial ownership of the shares held by the trust except to the extent of his pecuniary interest in them.
- (13) Includes 20,854 shares held for Mr. Eno in the Company's 401(k) plan.
- (14) Includes 17,771 shares held for Mr. Hill in the Company's 401(k) plan.
- (15) Includes 26,637 shares held for Mr. van Walsem in the Company's 401(k) plan.
- (16) Includes 19,684 shares held for Ms. Brum in the Company's 401(k) plan.
- (17) Includes a total of 135,794 shares held for executive officers, including named executive officers, in the Company's 401(k) plan.

PROPOSAL 1

PROPOSAL 1: TO AMEND OUR CERTIFICATE OF INCORPORATION TO INCREASE NUMBER OF AUTHORIZED SHARES OF COMMON STOCK

Our Board of Directors has adopted resolutions approving and submitting to a vote of the stockholders an amendment to our Certificate of Incorporation ("**Certificate**") to increase the number of authorized shares of Common Stock from 100,000,000 to 250,000,000.

We require additional authorized shares to meet our obligations to issue shares of Common Stock upon the conversion of shares of Series B Preferred Stock issued to investors pursuant to the Stock Purchase Agreement dated as of August 4, 2014, by and among the Company and those investors (the "**SPA**"). Under the SPA, we are obligated to obtain approval of this proposal to increase our authorized shares of Common Stock to a number of shares not less than 150,000,000 shares. Moreover, our Board of Directors believes that the availability of additional authorized shares will provide us with the flexibility in the future to issue shares of our Common Stock for general corporate purposes, including raising additional capital, settling outstanding obligations, in connection with present and future employee benefit programs, and acquisitions of companies or assets.

Our Board will determine whether, when and on what terms the issuance of our shares of our Common Stock may be warranted in connection with any future actions. No further action or authorization by our stockholders will be necessary before the issuance of the additional shares of our Common Stock authorized under our Certificate, except as may be required for a particular transaction by applicable law or regulatory agencies or by the rules of any stock market or exchange on which our Common Stock may then be listed.

Our Certificate authorizes the issuance of 100,000,000 shares of Common Stock and 5,000,000 shares of preferred stock, 50,000 of which have been designated Series B Preferred Stock. As of September 1, 2014, there were 85,094,640 shares of Common Stock issued and outstanding, 600,000 restricted stock units issued and outstanding and 50,000 shares of Series B Preferred Stock issued and outstanding. In addition, as of such date, 6,975,989 shares of Common Stock were issuable upon the exercise of outstanding options.

The Company will use 50,000,000 of the additional authorized shares of Common Stock for issuance upon the conversion of the Series B Preferred Stock pursuant to the SPA. As a result, promptly following approval of this Proposal 1, the Company will issue 50,000,000 shares of Common Stock to the holders of the Series B Preferred Stock upon conversion of their Series B Preferred Stock. Following such conversion there will be 135,094,640 shares of Common Stock issued and outstanding (assuming there are no other transactions affecting our outstanding Common Stock since September 1, 2014) and no shares of Series B Preferred Stock issued and outstanding.

The additional shares will also be available for issuance upon the exercise of existing outstanding options and awards under the Company's 2006 Stock Option and Incentive Plan (the "**2006 Stock Option Plan**") and the 2014 Stock Option and Incentive Plan (if approved) (the "**2014 Plan**") (the 2006 Stock Option Plan, together with the 2014 Plan, collectively, the "**Plans**"), and additional equity incentive compensation awards that have been or may in the future be granted under the Plans or other arrangements. Although the Company also expects to use some of the additional authorized shares of Common Stock in the future to raise additional capital, it has no specific plans, arrangements, or understandings to do so. Moreover, although our Board has no current plans to utilize the additional authorized shares to entrench present management, it may, in the future, be able to use the additional Common Stock as a defensive tactic against hostile takeover attempts. The authorization of such additional Common Stock will have no current anti-takeover effect. No hostile take-over attempts are, to our management's knowledge, currently threatened.

The relative rights and limitations of the Common Stock would remain unchanged under the amendment. Our stockholders do not currently possess, nor upon the approval of the proposed authorized share increase will they acquire, preemptive rights, that would entitle such persons, as a matter of right, to subscribe for the purchase of any shares, rights, warrants or other securities or obligations convertible into, or exchangeable for, our securities. Therefore, the issuance of shares of Common Stock that are authorized pursuant to the proposed increase in authorized shares will likely result in the dilution of the ownership interest of existing stockholders.

Recommendation

THE BOARD OF DIRECTORS UNANIMOUSLY RECOMMENDS A VOTE **FOR** APPROVAL OF THE PROPOSED AMENDMENT TO THE CERTIFICATE OF INCORPORATION TO INCREASE THE NUMBER OF AUTHORIZED SHARES OF COMMON STOCK FROM 100,000,000 TO 250,000,000.

PROPOSAL 2

PROPOSAL 2: TO AUTHORIZE THE BOARD OF DIRECTORS TO AMEND OUR CERTIFICATE OF INCORPORATION TO EFFECT A REVERSE STOCK SPLIT

Our Board of Directors has approved and recommended a proposal to authorize the Board to effect a reverse stock split of all of our outstanding Common Stock at a ratio of not less than 1-for-2 and not more than 1-for-10, with our Board having the discretion as to whether or not the reverse split is to be effected, and with the exact ratio of any reverse split to be set at a whole number within the above range as determined by our Board in its sole discretion; provided that the reverse split must be effected, if at all, no later than December 31, 2015.

The proposal provides that our Board will have sole discretion pursuant to Section 242(c) of the Delaware General Corporation Law to elect, as it determines to be in our best interest, whether or not to effect the reverse split at any time on or before December 31, 2015, and, if so, the number of our shares of Common Stock between and including 1-for-2 and 1-for-10 which will be combined into one share of our Common Stock. Our Board believes that the availability of alternative reverse split ratios will provide it with the flexibility to implement the reverse stock split in a manner designed to maximize the anticipated benefits for us and our stockholders. In determining whether to implement the reverse split following the receipt of stockholder approval, our Board of Directors may consider, among other things, factors such as:

- the historical trading price and trading volume of our Common Stock;
- the then prevailing trading price and trading volume of our Common Stock and the anticipated impact of the reverse split on the trading market for our Common Stock;
- our ability to have our shares of Common Stock remain listed on The NASDAQ Global Market;
- the anticipated impact of the reverse split on our ability to raise additional financing;
- the anticipated reduction in our administrative costs that might result from the reverse split; and
- prevailing general market and economic conditions.

If our Board determines that effecting the reverse split is in our best interest, the reverse split will become effective upon filing of an amendment to our Certificate of Incorporation with the Secretary of State of the State of Delaware. The amendment filed thereby will set forth the number of shares to be combined into one share of our Common Stock within the limits set forth in this proposal. Except for adjustments that may result from the treatment of fractional shares as described below, each stockholder will hold the same percentage of our outstanding Common Stock immediately following the reverse split as such stockholder holds immediately prior to the reverse split.

Certain of our officers and directors have an interest in the reverse stock split as a result of their ownership of Common Stock, as set forth in the section entitled "Security Ownership of Certain Beneficial Owners and Management."

Reasons for the Reverse Stock Split

The Board believes that a reverse stock split may be desirable for two reasons. First, the Board believes that a reverse stock split may be necessary to maintain the listing of our Common Stock on The NASDAQ Global Market. Second, the Board believes that a reverse stock split could improve the marketability and liquidity of the Common Stock.

To maintain our listing on The NASDAQ Global Market. By potentially increasing our stock price, a reverse stock split would reduce the risk that our stock could be delisted from The NASDAQ Global Market. To continue our listing on The NASDAQ Global Market, we must comply with NASDAQ

Marketplace Rules, which include a minimum bid price of \$1.00 per share. On July 7, 2014, we were notified by the NASDAQ Listing Qualifications Department that we do not comply with the \$1.00 minimum bid threshold as our Common Stock had traded below the \$1.00 minimum bid price for 30 consecutive business days. We were automatically provided with a 180-calendar day period, which ends January 5, 2015, within which to regain compliance. To regain compliance, the closing bid price of the Company's Common Stock must be \$1.00 per share or more for a minimum of 10 consecutive business days. If the Company regains compliance, NASDAQ will provide the Company with written confirmation and will close the matter.

If the Company does not regain compliance with NASDAQ's minimum bid price rule by January 5, 2015, the Company may be eligible for an additional 180 calendar day compliance period. To qualify, the Company would need to transfer the listing of its Common Stock to The NASDAQ Capital Market, provided that it meets the continued listing requirement for market value of publicly-held shares and all other initial listing standards, with the exception of the bid price requirement, and would need to provide written notice of its intention to cure the deficiency during the second compliance period, by effecting a reverse stock split, if necessary. However, if it appears to NASDAQ that the Company will not be able to cure the deficiency, or if the Company is otherwise not eligible, NASDAQ would notify the Company that its securities would be subject to delisting. In the event of such a notification, the Company may appeal NASDAQ's determination to delist its securities, but there can be no assurance that NASDAQ would grant the Company's request for continued listing.

The Board of Directors has considered the potential harm to us and our stockholders should NASDAQ delist our Common Stock from The NASDAQ Global Market. Delisting could adversely affect the liquidity of our Common Stock because alternatives, such as the OTC Bulletin Board and the pink sheets, are generally considered to be less efficient markets. An investor likely would find it less convenient to sell, or to obtain accurate quotations in seeking to buy, our Common Stock on an over-the-counter market. Many investors likely would not buy or sell our Common Stock due to difficulty in accessing over-the-counter markets, policies preventing them from trading in securities not listed on a national exchange or other reasons.

The Board of Directors believes that a reverse stock split is a potentially effective means for us to maintain compliance with NASDAQ Marketplace Rules and to avoid, or at least mitigate, the likely adverse consequences of our Common Stock being delisted from The NASDAQ Global Market by producing the immediate effect of increasing the bid price of our Common Stock.

To improve the marketability and liquidity of the Common Stock. The Board of Directors believes that the increased market price of the Common Stock expected as a result of implementing a reverse stock split could improve the marketability and liquidity of the Common Stock and could encourage interest and trading in the Common Stock. A reverse stock split could allow a broader range of institutions to invest in our stock (namely, funds that are prohibited from buying stocks whose price is below a certain threshold), potentially increasing the liquidity of our Common Stock. A reverse stock split could help increase analyst and broker interest in our stock as their policies can discourage them from following or recommending companies with low stock prices. Because of the trading volatility often associated with low-priced stocks, many brokerage houses and institutional investors have internal policies and practices that either prohibit them from investing in low-priced stocks or tend to discourage individual brokers from recommending low-priced stocks to their customers. Some of those policies and practices may make the processing of trades in low-priced stocks economically unattractive to brokers. Additionally, because brokers' commissions on low-priced stocks generally represent a higher percentage of the stock price than commissions on higher-priced stocks, a low average price per share of Common Stock can result in individual stockholders paying transaction costs representing a higher percentage of their total share value than would be the case if the share price were higher.

The Board of Directors does not intend for this transaction to be the first step in a series of plans or proposals of a "going private transaction" within the meaning of Rule 13e-3 of the Securities Exchange Act.

Risks of the Proposed Reverse Stock Split

We cannot assure you that the proposed reverse stock split will increase our stock price and have the desired effect of maintaining compliance with NASDAQ Marketplace Rules. The Board of Directors expects that a reverse stock split of our Common Stock will increase the market price of our Common Stock so that we are able to regain and maintain compliance with the NASDAQ minimum bid price listing standard. However, the effect of a reverse stock split upon the market price of our Common Stock cannot be predicted with any certainty, and the history of similar stock splits for companies in like circumstances is varied. It is possible that the per share price of our Common Stock after the reverse stock split will not rise in proportion to the reduction in the number of shares of our Common Stock outstanding resulting from the reverse stock split, and the market price per post-reverse stock split share may not exceed or remain in excess of the \$1.00 minimum bid price for a sustained period of time, and the reverse stock split may not result in a per share price that would attract brokers and investors who do not trade in lower priced stocks. Even if we effect a reverse stock split, the market price of our Common Stock may decrease due to factors unrelated to the stock split. In any case, the market price of our Common Stock may also be based on other factors which may be unrelated to the number of shares outstanding, including our future performance. If the reverse stock split is consummated and the trading price of the Common Stock declines, the percentage decline as an absolute number and as a percentage of our overall market capitalization may be greater than would occur in the absence of the reverse stock split. Even if the market price per post-reverse stock split share of our Common Stock remains in excess of \$1.00 per share, we may be delisted due to a failure to meet other continued listing requirements, including NASDAQ requirements related to the minimum stockholder's equity, the minimum number of shares that must be in the public float, the minimum market value of the public float and the minimum number of round lot holders.

The proposed reverse stock split may decrease the liquidity of our stock. The liquidity of our capital stock may be harmed by the proposed reverse stock split given the reduced number of shares that would be outstanding after the reverse stock split, particularly if the stock price does not increase as a result of the reverse stock split.

In addition, investors might consider the increased proportion of unissued authorized shares to issued shares to have an anti-takeover effect under certain circumstances, because the proportion allows for dilutive issuances which could prevent certain stockholders from changing the composition of the Board of Directors or render tender offers for a combination with another entity more difficult to successfully complete. The Board of Directors does not intend for the reverse stock split to have any anti-takeover effects.

Effects of the Reverse Stock Split

If the reverse stock split is approved and implemented, the principal effect will be to proportionately decrease the number of outstanding shares of our Common Stock based on the reverse stock split ratio selected by our Board of Directors. Our shares of Common Stock currently trade on The NASDAQ Global Market. The reverse stock split will not directly affect the listing of our Common Stock on The NASDAQ Global Market, although we believe that a reverse stock split could potentially increase our stock price, facilitating compliance with NASDAQ's minimum bid price listing requirement. Following the reverse stock split, our Common Stock will continue to be listed on The NASDAQ Global Market under the symbol "**MBLX**," although our Common Stock would have a new committee on uniform securities identification procedures ("**CUSIP**") number, a number used to identify our Common Stock.

Proportionate voting rights and other rights and preferences of the holders of our Common Stock will not be affected by the proposed reverse stock split (other than as a result of the payment of cash in lieu of fractional shares). For example, a holder of 2% of the voting power of the outstanding shares of our Common Stock immediately prior to the effectiveness of the reverse stock split will generally continue to hold 2% of the voting power of the outstanding shares of our Common Stock immediately after the reverse stock split. Moreover, the number of stockholders of record will not be affected by the reverse stock split (except to the extent any stockholders are cashed out as a result of holding fractional shares).

If the reverse stock split is approved and implemented, the Company will have additional shares of Common Stock available for issuance because the number of outstanding shares of Common Stock will decrease, while the number of authorized shares of Common Stock will be unchanged. Although the Company expects to use some of the additional authorized shares of Common Stock in the future to raise additional capital, it has no specific plans, arrangements, or understandings to do so. The additional shares would also be available for issuance pursuant to the exercise of existing outstanding options and awards under the Company's Plans and for additional equity incentive compensation awards that have been or may in the future be granted under the Plans or other arrangements.

The Common Stock is currently registered under Section 12(b) of the Securities Exchange Act, and we are subject to the periodic reporting and other requirements of the Securities Exchange Act. The proposed reverse stock split will not affect the registration of the Common Stock under the Securities Exchange Act. Our Common Stock would continue to be reported on The NASDAQ Global Market under the symbol "MBLX," although it is likely that NASDAQ would add the letter "D" to the end of the trading symbol for a period of twenty trading days after the effective date of the reverse stock split to indicate that the reverse stock split had occurred.

Effect on Employee Plans, Options, Restricted Stock Awards and Convertible or Exchangeable Securities

Pursuant to the terms of the Plans, the Board of Directors or a committee thereof, as applicable, will adjust the number of shares available for future grant under the Plans, the number of shares underlying outstanding awards, the exercise price per share of outstanding stock options and other terms of outstanding awards issued pursuant to the Plans to equitably reflect the effects of the reverse stock split. Based upon the reverse stock split ratio determined by the Board, proportionate adjustments are also generally required to be made to the per share exercise price and the number of shares issuable upon the exercise or conversion of outstanding options, restricted stock units under other plans and arrangements and any convertible or exchangeable securities entitling the holders to purchase, exchange for, or convert into, shares of Common Stock. This would result in approximately the same aggregate price being required to be paid under such options, restricted stock units and convertible or exchangeable securities upon exercise, and approximately the same value of shares of Common Stock being delivered upon such exercise, exchange or conversion, immediately following the reverse stock split as was the case immediately preceding the reverse stock split. The number of shares subject to vesting under restricted stock awards will be similarly adjusted, subject to our treatment of fractional shares. The number of shares reserved for issuance pursuant to these securities and our Plans will be adjusted proportionately based upon the reverse stock split ratio determined by the Board, subject to our treatment of fractional shares.

Board Discretion to Implement or Abandon Reverse Stock Split

The reverse split will be effected, if at all, only upon a determination by our Board that the reverse split (with an exchange ratio determined by our Board as described above) is in our best interest. Such determination shall be based upon certain factors, including, but not limited to, our ability to meet stock exchange listing requirements, existing and expected marketability and liquidity of

our Common Stock, and the expense of effecting the reverse split. Notwithstanding approval of the reverse split by our stockholders, our Board may, in its sole discretion, abandon the proposal and determine, prior to the effectiveness of any filing with the Secretary of State of the State of Delaware, not to effect the reverse split.

Effective Date

If implemented by our Board, the reverse split would become effective upon the filing of an amendment to our Certificate of Incorporation with the Secretary of State of the State of Delaware; provided that the reverse split must be effected, if at all, no later than December 31, 2015. Except as explained below with respect to fractional shares, on the effective date, shares of Common Stock issued and outstanding immediately prior thereto will be combined and converted, automatically and without any action on the part of the stockholders, into new shares of Common Stock in accordance with the reverse split ratio determined by the Board within the limits set forth in this proposal.

Fractional Shares

No fractional shares of Common Stock will be issued as a result of the reverse split. Instead, stockholders who otherwise would be entitled to receive fractional shares will be entitled to receive cash in an amount equal to the product obtained by multiplying (i) the closing price of our shares of Common Stock on the day immediately preceding the effective date of the reverse split, as reported on The NASDAQ Global Market (or, if the closing price of our Common Stock is not then reported on The NASDAQ Global Market, then the fair market value of our shares of Common Stock as determined by the Board) by (ii) the number of shares of our Common Stock held by such stockholder that would otherwise have been exchanged for such fractional share interest.

Other Effects

If approved and implemented, the reverse split will result in some stockholders owning "odd-lots" of fewer than 100 shares of Common Stock. Brokerage commissions and other costs of transactions in odd-lots are generally somewhat higher than the costs of transactions in "round-lots" of even multiples of 100 shares.

Record and Beneficial Stockholders

If the reverse stock split is authorized by the stockholders and the Board of Directors elects to implement the reverse stock split, stockholders of record holding some or all of their shares of our Common Stock electronically in book-entry form under the direct registration system for securities will receive a transaction statement at their address of record indicating the number of shares of our Common Stock they hold after the reverse stock split. Non-registered stockholders holding Common Stock through a bank, broker or other nominee should note that such banks, brokers or other nominees may have different procedures for processing the consolidation than those that would be put in place by us for registered stockholders. If you hold your shares with such a bank, broker or other nominee and if you have questions in this regard, you are encouraged to contact your nominee.

If the reverse stock split is authorized by the stockholders and the Board of Directors elects to implement the reverse stock split, stockholders of record holding some or all of their shares in certificate form will receive a letter of transmittal, as soon as practicable after the effective date of the reverse stock split. Our transfer agent will act as "exchange agent" for the purpose of implementing the exchange of stock certificates. Holders of pre-reverse stock split shares will be asked to surrender to the exchange agent certificates representing pre-reverse stock split shares in exchange for post-reverse stock split shares, including whole shares to be issued in lieu of fractional shares (if any) in accordance with the procedures to be set forth in the letter of transmittal. Until surrender, each certificate

representing shares before the reverse stock split would continue to be valid and would represent the adjusted number of shares based on the exchange ratio of the reverse stock split rounded up to the nearest whole share. No new post-reverse stock split share certificates, including those representing whole shares to be issued in lieu of fractional shares, will be issued to a stockholder until such stockholder has surrendered such stockholder's outstanding certificate(s) together with the properly completed and executed letter of transmittal to the exchange agent.

STOCKHOLDERS SHOULD NOT DESTROY ANY PRE-SPLIT STOCK CERTIFICATE AND SHOULD NOT SUBMIT ANY CERTIFICATES UNTIL THEY ARE REQUESTED TO DO SO.

No Appraisal Rights

Our stockholders are not entitled to dissenters' or appraisal rights under the Delaware General Corporation Law with respect to the proposed authorization of a reverse stock split and we will not independently provide the stockholders with any such right if the reverse stock split is implemented.

Tax Consequences

The following is a summary of certain material United States federal income tax consequences of the reverse stock split to our stockholders. This summary does not purport to be a complete discussion of all of the possible federal income tax consequences of the reverse stock split and is included for general information only. Further, it does not address any state, local or foreign income or other tax consequences. Also, it does not address the tax consequences to stockholders that are subject to special tax rules, such as banks, insurance companies, and regulated investment entities. Other stockholders may also be subject to special tax rules, including but not limited to: stockholders that received Common Stock as compensation for services or pursuant to the exercise of an employee stock option, or stockholders who have held, or will hold, stock as part of a straddle, hedging or conversion transaction for federal income tax purposes. This summary also assumes that you are a United States holder (defined below) who has held, and will hold, shares of Common Stock as a "capital asset," as defined in the Internal Revenue Code of 1986, as amended (the "**Code**"), i.e., generally, property held for investment. Finally, the following discussion does not address the tax consequences of transactions occurring prior to or after the reverse stock split (whether or not such transactions are in connection with the reverse stock split), including, without limitation, the exercise of options or rights to purchase Common Stock in anticipation of the reverse stock split.

The tax treatment of a stockholder may vary depending upon the particular facts and circumstances of such stockholder. You should consult with your own tax advisor with respect to the tax consequences of the reverse stock split. As used herein, the term United States holder means a stockholder that is, for federal income tax purposes: a citizen or resident of the United States; a corporation or other entity taxed as a corporation created or organized in or under the laws of the United States or any state, including the District of Columbia; an estate the income of which is subject to federal income tax regardless of its source; or a trust that (i) is subject to the primary supervision of a U.S. court and the control of one of more U.S. persons or (ii) has a valid election in effect under applicable U.S. Treasury regulations to be treated as a U.S. person.

The following discussion is based on the Code, applicable Treasury Regulations, judicial authority and administrative rulings and practice, all as of the date hereof. The Internal Revenue Service could adopt a contrary position. In addition, future legislative, judicial or administrative changes or interpretations could adversely affect the accuracy of the statements and conclusions set forth herein. Any such changes or interpretations could be applied retroactively and could affect the tax consequences described herein. No ruling from the Internal Revenue Service or opinion of counsel has been obtained in connection with the reverse stock split.

No gain or loss should be recognized by a stockholder upon such stockholder's exchange of pre-reverse stock split shares of Common Stock for post-reverse stock split shares of Common Stock pursuant to the reverse stock split. The aggregate tax basis of the post-reverse stock split shares received in the reverse stock split (including any whole share received in exchange for a fractional share) will be the same as the stockholder's aggregate tax basis in the pre-reverse stock split shares exchanged therefore. The stockholder's holding period for the post-reverse stock split shares will include the period during which the stockholder held the pre-reverse stock split shares surrendered in the reverse stock split.

THE PRECEDING DISCUSSION IS INTENDED ONLY AS A SUMMARY OF CERTAIN FEDERAL INCOME TAX CONSEQUENCES OF THE REVERSE STOCK SPLIT AND DOES NOT PURPORT TO BE A COMPLETE ANALYSIS OR DISCUSSION OF ALL POTENTIAL TAX EFFECTS RELEVANT THERETO. YOU SHOULD CONSULT YOUR OWN TAX ADVISORS AS TO THE PARTICULAR FEDERAL, STATE, LOCAL, FOREIGN AND OTHER TAX CONSEQUENCES OF THE REVERSE STOCK SPLIT IN LIGHT OF YOUR SPECIFIC CIRCUMSTANCES.

Accounting Consequences

If a reverse stock split is authorized and implemented, the par value per share of Common Stock would remain unchanged at \$0.01 per share after the reverse stock split. As a result, on the effective date of the reverse stock split, the stated capital on our balance sheet attributable to the Common Stock will be reduced proportionately, based on the exchange ratio of the reverse stock split, from its present amount, and the additional paid-in capital account will be credited with the amount by which the stated capital is reduced. The per share Common Stock net income or loss and net book value will be increased because there will be fewer shares of Common Stock outstanding. The shares of Common Stock held in treasury, if any, will also be reduced proportionately based on the exchange ratio of the reverse stock split. We will reclassify prior period per share amounts and the Consolidated Statements of Stockholders' Equity for the effect of the reverse stock split for any prior periods in our financial statements and reports such that prior periods are comparable to current period presentation. We do not anticipate that any other accounting consequences would arise as a result of the reverse stock split.

Recommendation

THE BOARD OF DIRECTORS UNANIMOUSLY RECOMMENDS A VOTE **FOR** APPROVAL OF THE PROPOSAL TO AUTHORIZE OUR BOARD TO EFFECT THE REVERSE SPLIT.

PROPOSAL 3

PROPOSAL 3: APPROVAL OF THE 2014 STOCK OPTION AND INCENTIVE PLAN

Proposal

The Board of Directors believes that stock options and other stock-based incentive awards can play an important role in the success of the Company by encouraging and enabling the employees, officers, non-employee directors and other key persons of the Company and its subsidiaries upon whose judgment, initiative and efforts the Company largely depends for the successful conduct of its business to acquire a proprietary interest in the Company. The Board of Directors anticipates that providing such persons with a direct stake in the Company will assure a closer identification of the interests of such individuals with those of the Company and its stockholders, thereby stimulating their efforts on the Company's behalf and strengthening their desire to remain with the Company.

On September 11, 2014 the Board adopted the 2014 Plan, subject to the approval of the Company's stockholders. The 2014 Plan will replace the 2006 Stock Option Plan. The 2014 Plan provides flexibility to the Compensation Committee to use various equity-based incentive awards as compensation tools to motivate the Company's workforce. Following approval of the 2014 Plan by the stockholders, the Company will no longer make any grants under the 2006 Stock Option Plan. A copy of the 2014 Plan is attached as Appendix A to this proxy statement and is incorporated herein by reference.

As of September 1, 2014, there were stock options under the Plans and under other equity compensation arrangements of the Company to acquire 6,975,989 shares of Common Stock outstanding with a weighted average exercise price of \$4.60 and weighted average remaining term of 6.74 years. In addition, as of September 1, 2014, there were 600,000 unvested full-value awards outstanding. Other than the foregoing, there were no other equity awards outstanding as of September 1, 2014.

Summary of Material Features

The material features of the 2014 Plan are:

- The maximum number of shares of Common Stock to be issued under the 2014 Plan is (x) 25,000,000, plus (y) the number of shares of Common Stock underlying any awards under the 2006 Stock Option Plan that are forfeited, canceled or terminated (other than by exercise);
- Shares tendered or held back for taxes will not be added back to the reserved pool under the 2014 Plan. Upon the exercise of a stock appreciation right, the full number of shares underlying the Award will be charged to the reserved pool. Additionally, shares reacquired by the Company on the open market or otherwise using cash proceeds of option exercises will not be added to the reserved pool;
- The award of stock options (both incentive and non-qualified options), stock appreciation rights, restricted stock, restricted stock units, unrestricted stock, performance shares, dividend equivalent rights and cash-based awards is permitted;
- Without stockholder approval, the exercise price of stock options and stock appreciation rights will not be reduced and stock options and stock appreciation rights will not be otherwise repriced through cancellation in exchange for cash, other awards or stock options or stock appreciation rights with a lower exercise price;
- Any material amendment to the 2014 Plan is subject to approval by our stockholders; and
- The 2014 Plan will expire ten (10) years after the date the 2014 Plan is approved by the stockholders.

Based solely on the closing price of our Common Stock as reported by the NASDAQ on September 2, 2014, the maximum aggregate market value of Common Stock that could potentially be issued under the 2014 Plan is \$18,500,000. The shares we issue under the 2014 Plan will be authorized but unissued shares or treasury shares. The shares of Common Stock underlying any awards that are forfeited, canceled, reacquired by the Company prior to vesting, satisfied without any issuance of stock, expire or are otherwise terminated (other than by exercise) under the 2014 Plan are added back to the shares of Common Stock available for issuance under the 2014 Plan.

Qualified Performance-Based Compensation under Code Section 162(m)

To ensure that certain awards granted under the 2014 Plan to a "Covered Employee" (as defined in the Internal Revenue Code of 1986 (the "**Code**")) qualify as "performance-based compensation" under Section 162(m) of the Code, the 2014 Plan provides that the Compensation Committee may require that the vesting of such awards be conditioned on the satisfaction of performance criteria that may include any or all of the following: (1) total shareholder return, (2) earnings before interest, taxes, depreciation and amortization, (3) net income (loss) (either before or after interest, taxes, depreciation and/or amortization), (4) stock price or changes in the market price of the Common Stock, (5) customer satisfaction indicators, (6) economic value-added, (7) funds from operations or similar measure, (8) sales or revenue, (9) mergers, acquisitions, financing, corporate partnering or strategic transactions, (10) operating income (loss), (11) cash flow (including, but not limited to, operating cash flow and free cash flow), (12) return on capital, assets, equity, or investment, (13) shareholder returns, (14) return on sales, (15) gross or net profit levels, (16) productivity, (17) expenses, (18) margins, (19) operating efficiency, (20) customer satisfaction, (21) working capital, (22) earnings (loss) per share of Common Stock, (23) sales or market shares, (24) number of customers, (25) branding establishment or awareness, (26) technical product development and/or applications advances, (27) commercial, research and development, engineering and/or manufacturing milestones, (28) achievement of corporate collaborative agreement milestones and (29) adjusted EBITDA, any of which may be measured either in absolute terms or as compared to any incremental increase or as compared to results of a peer group. The Compensation Committee will select the particular performance criteria within 90 days following the commencement of a performance cycle. Subject to adjustments for stock splits and similar events, the maximum award granted to any one individual that is intended to qualify as "performance-based compensation" under Section 162(m) of the Code will not exceed 1,500,000 shares of Common Stock for any performance cycle and options or stock appreciation rights with respect to no more than 1,500,000 shares of Common Stock may be granted to any one individual during any calendar year period. If a performance-based award is payable in cash, it cannot exceed \$10,000,000 for any performance cycle.

Rationale for Share Increase

The 2014 Plan is critical to our ongoing effort to build stockholder value. Our equity incentive program is broad-based and equity incentive awards are also an important component of our executive and non-executive employees' compensation. Our Compensation Committee and Board believe we must continue to offer a competitive equity compensation program in order to attract, retain and motivate the talented and qualified employees necessary for our continued growth and success.

We manage our long-term stockholder dilution, in part, by controlling the number of equity incentive awards granted annually. The Compensation Committee carefully monitors our annual net burn rate, total dilution, and equity expense in order to maximize stockholder value by granting what it believes are an appropriate number of equity incentive awards to attract, reward, and retain employees. Our compensation philosophy reflects broad-based eligibility for equity incentive awards, and we grant awards to substantially all of our employees. By doing so, we link employee interests with stockholder interests throughout the organization and motivate our employees to act as owners of the business.

Burn Rate

The following table sets forth information regarding historical awards granted and earned for the 2011 through 2013 period, and the corresponding burn rate, which is defined as the number of shares subject to equity-based awards granted in a year divided by the weighted average common shares outstanding for that year, for each of the last three fiscal years:

	2013	2012	2011
Stock Options Granted	2,294,315	2,529,700	907,160
Weighted average common shares outstanding during the fiscal year	34,471,301	34,217,298	31,257,376
Annual Burn Rate	6.66%	7.39%	2.90%
Three-Year Average Burn Rate(1)		5.67%	

- (1) As illustrated in the table above, our three-year average burn rate for the 2011-2013 period was 5.67%, which is below the ISS 2014 burn rate threshold of 8.98% for the pharmaceutical and biotechnology industry category.

If the 2014 Plan is approved by stockholders, we will have approximately 25,000,000 shares available for grant under the Plans after the Special Meeting. We determined the number of shares reserved for issuance under the 2014 Plan based on a variety of factors, including the number of shares of Common Stock outstanding, projected equity awards to anticipated new hires, projected annual equity awards to existing employees, officers and directors, and an assessment of the magnitude of increase in the share reserve that our institutional investors and the firms that advise them would likely find acceptable. We anticipate that if our request to increase the share reserve is approved by stockholders, it will be sufficient to provide equity incentives to attract, retain, and motivate employees and directors through at least the next 36 months.

Summary of the 2014 Plan

The following description of certain features of the 2014 Plan is intended to be a summary only. The summary is qualified in its entirety by the full text of the 2014 Plan that is attached hereto as Appendix A.

Plan Administration. The 2014 Plan is administered by the Compensation Committee. The Compensation Committee has full power to select, from among the individuals eligible for awards, the individuals to whom awards will be granted, to make any combination of awards to participants, and to determine the specific terms and conditions of each award, subject to the provisions of the 2014 Plan. The Compensation Committee may delegate to our Chief Executive Officer the authority to grant stock options and other awards to employees who are not subject to the reporting and other provisions of Section 16 of the Exchange Act and not subject to Section 162(m) of the Code, subject to certain limitations and guidelines.

Eligibility. Persons eligible to participate in the 2014 Plan will be those full or part-time officers, employees, non-employee directors and other key persons (including consultants and prospective officers) of the Company and its subsidiaries as selected from time to time by the Compensation Committee in its discretion. As of September 1, 2014, approximately 90 individuals are currently eligible to participate in the 2014 Plan, which includes six (6) officers, 79 employees who are not officers, and five (5) non-employee directors.

Plan Limits. The maximum award of stock options or stock appreciation rights granted to any one individual will not exceed 3,000,000 shares of Common Stock (subject to adjustment for stock splits and similar events) for any calendar year period. If any award of restricted stock, restricted stock units

or performance shares granted to an individual is intended to qualify as "performance-based compensation" under Section 162(m) of the Code, then the maximum award shall not exceed 3,000,000 shares of Common Stock (subject to adjustment for stock splits and similar events) to any one such individual in any performance cycle. If any cash-based award is intended to qualify as "performance-based compensation" under Section 162(m) of the Code, then the maximum award to be paid in cash in any performance cycle may not exceed \$10,000,000. In addition, no more than 25,000,000 shares will be issued in the form of incentive stock options.

Stock Options. The 2014 Plan permits the granting of (1) options to purchase Common Stock intended to qualify as incentive stock options under Section 422 of the Code and (2) options that do not so qualify. Options granted under the 2014 Plan will be non-qualified options if they fail to qualify as incentive options or exceed the annual limit on incentive stock options. Incentive stock options may only be granted to employees of the Company and its subsidiaries. Non-qualified options may be granted to any persons eligible to receive incentive options and to non-employee directors and key persons. The option exercise price of each option will be determined by the Compensation Committee but may not be less than 100 percent of the fair market value of the Common Stock on the date of grant. Fair market value for this purpose will be the last reported sale price of the shares of Common Stock on NASDAQ on the date of grant. The exercise price of an option may not be reduced after the date of the option grant, other than to appropriately reflect changes in our capital structure.

The term of each option will be fixed by the Compensation Committee and may not exceed ten years from the date of grant. The Compensation Committee will determine at what time or times each option may be exercised. Options may be made exercisable in installments and the exercisability of options may be accelerated by the Compensation Committee. In general, unless otherwise permitted by the Compensation Committee, no option granted under the 2014 Plan is transferable by the optionee other than by will or by the laws of descent and distribution, and options may be exercised during the optionee's lifetime only by the optionee, or by the optionee's legal representative or guardian in the case of the optionee's incapacity.

Upon exercise of options, the option exercise price must be paid in full either in cash, by certified or bank check or other instrument acceptable to the Compensation Committee or by delivery (or attestation to the ownership) of shares of Common Stock that are beneficially owned by the optionee for at least six months or were purchased in the open market. Subject to applicable law, the exercise price may also be delivered to the Company by a broker pursuant to irrevocable instructions to the broker from the optionee. In addition, the Compensation Committee may permit non-qualified options to be exercised using a net exercise feature which reduces the number of shares issued to the optionee by the number of shares with a fair market value equal to the exercise price.

To qualify as incentive options, options must meet additional federal tax requirements, including a \$100,000 limit on the value of shares subject to incentive options that first become exercisable by a participant in any one calendar year.

Stock Appreciation Rights. The Compensation Committee may award stock appreciation rights subject to such conditions and restrictions as the Compensation Committee may determine. Stock appreciation rights entitle the recipient to shares of Common Stock equal to the value of the appreciation in the stock price over the exercise price. The exercise price is the fair market value of the Common Stock on the date of grant. The maximum term of a stock appreciation right is ten years.

Restricted Stock. The Compensation Committee may award shares of Common Stock to participants subject to such conditions and restrictions as the Compensation Committee may determine. These conditions and restrictions may include the achievement of certain performance goals (as summarized above) and/or continued employment with us through a specified restricted period. However, except in the case of retirement, death, disability or a change of control, in the event these

awards granted to employees have a performance-based goal, the restriction period will be at least one year.

Restricted Stock Units. The Compensation Committee may award restricted stock units to any participants. Restricted stock units are ultimately payable in the form of shares of Common Stock and may be subject to such conditions and restrictions as the Compensation Committee may determine. These conditions and restrictions may include the achievement of certain performance goals (as summarized above) and/or continued employment with the Company through a specified vesting period. However, except in the case of retirement, death, disability or a change of control, in the event these awards granted to employees have a performance-based goal, the restriction period will be at least one year. In the Compensation Committee's sole discretion, it may permit a participant to make an advance election to receive a portion of his or her future cash compensation otherwise due in the form of a deferred stock unit award, subject to the participant's compliance with the procedures established by the Compensation Committee and requirements of Section 409A of the Code. During the deferral period, the deferred stock awards may be credited with dividend equivalent rights.

Unrestricted Stock Awards. The Compensation Committee may also grant shares of Common Stock which are free from any restrictions under the 2014 Plan. Unrestricted stock may be granted to any participant in recognition of past services or other valid consideration and may be issued in lieu of cash compensation due to such participant.

Performance Share Awards. The Compensation Committee may grant performance share awards to any participant which entitle the recipient to receive shares of Common Stock upon the achievement of certain performance goals (as summarized above) and such other conditions as the Compensation Committee shall determine. Except in the case of retirement, death, disability or a change in control, these awards granted to employees will have a vesting period of at least one year.

Dividend Equivalent Rights. The Compensation Committee may grant dividend equivalent rights to participants which entitle the recipient to receive credits for dividends that would be paid if the recipient had held specified shares of Common Stock. Dividend equivalent rights granted as a component of another award subject to performance vesting may be paid only if the related award becomes vested. Dividend equivalent rights may be settled in cash, shares of Common Stock or a combination thereof, in a single installment or installments, as specified in the award.

Cash-Based Awards. The Compensation Committee may grant cash bonuses under the 2014 Plan to participants. The cash bonuses may be subject to the achievement of certain performance goals (as summarized above).

Change of Control Provisions. The 2014 Plan provides that upon the effectiveness of a "sale event" as defined in the 2014 Plan, all stock options, stock appreciation rights and other awards may be assumed or continued by the successor entity and adjusted accordingly to take into account the impact of the transaction except as otherwise provided by the Compensation Committee in the award agreement. To the extent, however, that the parties to such sale event do not provide for all stock options, stock appreciation rights or any other awards to be so assumed or continued, then such stock options and stock appreciation rights shall become fully vested and exercisable and the restrictions and conditions on all such other awards with time-based conditions will automatically be deemed waived. Awards with conditions and restrictions relating to the attainment of performance goals may become vested and non-forfeitable in connection with a sale event in the Committee's discretion. In addition, in the case of a sale event in which the Company's stockholders will receive cash consideration, the Company may make or provide for a cash payment to participants holding options and stock appreciation rights equal to the difference between the per share cash consideration and the exercise price of the options or stock appreciation rights in exchange for the cancellation thereto.

Adjustments for Stock Dividends, Stock Splits, Etc. The 2014 Plan requires the Compensation Committee to make appropriate adjustments to the number of shares of Common Stock that are subject to the 2014 Plan, to certain limits in the 2014 Plan, and to any outstanding awards to reflect stock dividends, stock splits, reverse stock splits, extraordinary cash dividends and similar events.

Tax Withholding. Participants in the 2014 Plan are responsible for the payment of any federal, state or local taxes that the Company is required by law to withhold upon the exercise of options or stock appreciation rights or vesting of other awards. Subject to approval by the Compensation Committee, participants may elect to have the minimum tax withholding obligations satisfied by authorizing the Company to withhold shares of Common Stock to be issued pursuant to the exercise or vesting of such award.

Amendments and Termination. The Board may at any time amend or discontinue the 2014 Plan and the Compensation Committee may at any time amend or cancel any outstanding award for the purpose of satisfying changes in the law or for any other lawful purpose. However, no such action may adversely affect any rights under any outstanding award without the holder's consent. To the extent required under the rules of NASDAQ, any amendments that materially change the terms of the 2014 Plan will be subject to approval by our stockholders. Amendments shall also be subject to approval by our stockholders if and to the extent determined by the Compensation Committee to be required by the Code to preserve the qualified status of incentive options or to ensure that compensation earned under the 2014 Plan qualifies as performance-based compensation under Section 162(m) of the Code.

Effective Date of 2014 Plan. The Board adopted the 2014 Plan on September 11, 2014, and the 2014 Plan becomes effective on the date it is approved by stockholders. Awards of incentive options may be granted under the 2014 Plan until September 11, 2024. No other awards may be granted under the 2014 Plan after the date that is 10 years from the date of stockholder approval of the 2014 Plan.

New Plan Benefits

Because the grant of awards under the 2014 Plan is within the discretion of the Compensation Committee, the Company cannot determine the dollar value or number of shares of Common Stock that will in the future be received by or allocated to any participant in the 2014 Plan. Accordingly, in lieu of providing information regarding benefits that will be received under the 2014 Plan, the following table provides information concerning the benefits that were received by the following persons and groups during the period from January 1, 2014 through September 1, 2014: our current chief executive

officer, each named executive officer; all current executive officers, as a group; all current directors who are not executive officers, as a group; and all employees who are not executive officers, as a group.

Name and Position	Options		Restricted Stock Units	
	Average Exercise Price	Number (#)	Dollar Value (\$)	Number (#)
Joseph Shaulson, President and Chief Executive Officer	\$ 1.20	250,000	\$ 732,000	600,000
Joseph D. Hill, Chief Financial Officer	—	—	—	—
Johan van Walsem, Chief Operating Officer	—	—	—	—
Oliver P. Peoples, Chief Scientific Officer	—	—	—	—
Lynne H. Brum, Vice President, Marketing and Corporate Communications	—	—	—	—
Richard P. Eno, former President and Chief Executive Officer	—	—	—	—
All current executive officers, as a group	\$ 1.20	250,000	\$ 732,000	600,000
All current directors who are not executive officers, as a group	\$ 1.13	315,000	—	—
All current employees who are not executive officers, as a group	\$ 1.29	320,125	—	—

Tax Aspects Under the Code

The following is a summary of the principal federal income tax consequences of certain transactions under the 2014 Plan. It does not describe all federal tax consequences under the 2014 Plan, nor does it describe state or local tax consequences.

Incentive Options. No taxable income is generally realized by the optionee upon the grant or exercise of an incentive option. If shares of Common Stock issued to an optionee pursuant to the exercise of an incentive option are sold or transferred after two years from the date of grant and after one year from the date of exercise, then (i) upon sale of such shares, any amount realized in excess of the option price (the amount paid for the shares) will be taxed to the optionee as a long-term capital gain, and any loss sustained will be a long-term capital loss, and (ii) the Company will not be entitled to any deduction for federal income tax purposes. The exercise of an incentive option will give rise to an item of tax preference that may result in alternative minimum tax liability for the optionee.

If shares of Common Stock acquired upon the exercise of an incentive option are disposed of prior to the expiration of the two-year and one-year holding periods described above (a "disqualifying disposition"), generally (i) the optionee will realize ordinary income in the year of disposition in an amount equal to the excess (if any) of the fair market value of the shares of Common Stock at exercise (or, if less, the amount realized on a sale of such shares of Common Stock) over the option price thereof, and (ii) we will be entitled to deduct such amount. Special rules apply where all or a portion of the exercise price of the incentive option is paid by tendering shares of Common Stock.

If an incentive option is exercised at a time when it no longer qualifies for the tax treatment described above, the option is treated as a non-qualified option. Generally, an incentive option will not be eligible for the tax treatment described above if it is exercised more than three months following termination of employment (or one year in the case of termination of employment by reason of disability). In the case of termination of employment by reason of death, the three-month rule does not apply.

Non-Qualified Options. No income is realized by the optionee at the time the option is granted. Generally (i) at exercise, ordinary income is realized by the optionee in an amount equal to the difference between the option price and the fair market value of the shares of Common Stock on the

date of exercise, and we receive a tax deduction for the same amount, and (ii) at disposition, appreciation or depreciation after the date of exercise is treated as either short-term or long-term capital gain or loss depending on how long the shares of Common Stock have been held. Special rules apply where all or a portion of the exercise price of the non-qualified option is paid by tendering shares of Common Stock. Upon exercise, the optionee will also be subject to Social Security taxes on the excess of the fair market value over the exercise price of the option.

Other Awards. The Company generally will be entitled to a tax deduction in connection with an award under the 2014 Plan in an amount equal to the ordinary income realized by the participant at the time the participant recognizes such income. Participants typically are subject to income tax and recognize such tax at the time that an award is exercised, vests or becomes non-forfeitable, unless the award provides for a further deferral.

Parachute Payments. The vesting of any portion of an option or other award that is accelerated due to the occurrence of a change in control (such as a sale event) may cause a portion of the payments with respect to such accelerated awards to be treated as "parachute payments" as defined in the Code. Any such parachute payments may be non-deductible to the Company, in whole or in part, and may subject the recipient to a non-deductible 20 percent federal excise tax on all or a portion of such payment (in addition to other taxes ordinarily payable).

Limitation on Deductions. Under Section 162(m) of the Code, the Company's deduction for certain awards under the 2014 Plan may be limited to the extent that the Chief Executive Officer or other executive officer whose compensation is required to be reported in the summary compensation table (other than the Principal Financial Officer) receives compensation in excess of \$1 million a year (other than performance-based compensation that otherwise meets the requirements of Section 162(m) of the Code). The 2014 Plan is structured to allow certain awards to qualify as performance-based compensation.

Vote Required

The affirmative vote of a majority of shares of Common Stock present in person or represented by proxy at the meeting and entitled to vote on this proposal is required for the approval of the 2014 Plan.

Recommendation

OUR BOARD OF DIRECTORS UNANIMOUSLY RECOMMENDS A VOTE **FOR** THE APPROVAL OF THE 2014 STOCK OPTION AND INCENTIVE PLAN.

Equity Compensation Plan Information

The following table provides information as of December 31, 2013 regarding shares of Common Stock that may be issued under the Company's equity compensation plans.

Plan category	Equity Compensation Plan Information		
	Number of securities to be issued upon exercise of outstanding options, warrants and rights	Weighted Average exercise price of outstanding options, warrants and rights	Number of securities remaining available for future issuance under equity compensation plan (excluding securities referenced in column (a))
	(a)	(b)	(c)
Equity compensation plans approved by security holders:	6,201,429(1)\$	5.68	2,292,970(2)
Equity compensation plans not approved by security holders:	1,150,000(3)\$	1.33	N/A
Total	7,351,429 \$	5.00	2,292,970

- (1) Consists of shares of Common Stock issuable upon the exercise of outstanding options under the 2006 Stock Option Plan and the 2005 Stock Plan.
- (2) As of September 1, 2014, there are 2,773,835 shares available for grants under the 2006 Stock Option Plan and no shares remaining available for grants under the 2005 Stock Plan.
- (3) Consists of shares of Common Stock issuable upon the exercise of outstanding options awarded to Joseph Shaulson on December 19, 2013.

OTHER MATTERS

The Board of Directors knows of no other matters to be brought before the Special Meeting. If any other matters are properly brought before the Special Meeting, the persons appointed in the accompanying proxy intend to vote the shares represented thereby in accordance with their best judgment on such matters, under applicable laws.

STOCKHOLDER PROPOSALS FOR THE 2015 ANNUAL MEETING

Any stockholder proposals submitted pursuant to Exchange Act Rule 14a-8 for inclusion in the Company's proxy statement and form of proxy for its 2015 annual meeting must be received by Metabolix on or before December 22, 2014 in order to be considered for inclusion in its proxy statement and form of proxy. Such proposals must also comply with the requirements as to form and substance established by the SEC if such proposals are to be included in the proxy statement and form of proxy. Any such proposal should be mailed to our principal executive offices: Metabolix, Inc., 21 Erie Street, Cambridge, Massachusetts 02139, Attention: Secretary.

Stockholder proposals to be presented at the Company's 2015 annual meeting, other than stockholder proposals submitted pursuant to Exchange Act Rule 14a-8 for inclusion in the Company's proxy statement and form of proxy for its 2015 annual meeting, must be received in writing at our principal executive office not earlier than January 20, 2015, nor later than February 19, 2015, unless our 2015 annual meeting of stockholders is scheduled to take place before April 20, 2015 or after July 19, 2015. Our By-Laws state that the stockholder must provide timely written notice of such nomination or proposal as well as be present at such meeting, either in person or by a representative. A stockholders' notice shall be timely received by Metabolix at its principal executive office not less than ninety (90) days nor more than one hundred twenty (120) days prior to the anniversary date of the immediately preceding annual meeting (the "**Anniversary Date**"); provided, however, that in the event the annual meeting is scheduled to be held on a date more than thirty (30) days before the Anniversary Date or more than sixty (60) days after the Anniversary Date, a stockholder's notice shall be timely if received by Metabolix at its principal executive office not later than the close of business on the later of (a) the ninetieth (90th) day prior to the scheduled date of such annual meeting or (b) the tenth (10th) day following the day on which public announcement of the date of such annual meeting is first made by Metabolix. Any such proposal should be mailed to: Metabolix, Inc., 21 Erie Street, Cambridge, Massachusetts 02139, Attention: Secretary.

EXPENSES AND SOLICITATION

The cost of solicitation of proxies will be borne by the Company and, in addition to soliciting stockholders by mail through its regular employees, the Company may request banks, brokers and other custodians, nominees and fiduciaries to solicit their customers who have stock of the Company registered in the names of a nominee and, if so, will reimburse such banks, brokers and other custodians, nominees and fiduciaries for their reasonable out-of-pocket costs. Solicitation by officers and employees of the Company may also be made of some stockholders in person or by mail, telephone or e-mail following the original solicitation.

HOUSEHOLDING OF PROXY MATERIALS

In order to reduce printing and postage costs, the Company has undertaken an effort to deliver only one proxy statement to multiple shareholders sharing an address. This delivery method, called "householding," is being used unless the Company has received contrary instructions from one or more of the stockholders sharing an address. If your household has received only one proxy statement, the Company will deliver promptly a separate copy of the proxy statement to any shareholder who sends a written request to Metabolix, Inc., 21 Erie Street, Cambridge, Massachusetts 02139, Attention: Secretary, or makes an oral request to Investor Relations at (617) 583-1700. If your household is receiving multiple copies of the Company's proxy statement and you wish to request delivery of a single copy, you may send a written request to Metabolix, Inc., 21 Erie Street, Cambridge, Massachusetts 02139, Attention: Secretary.

METABOLIX, INC.

2014 STOCK OPTION AND INCENTIVE PLAN

SECTION 1. GENERAL PURPOSE OF THE PLAN; DEFINITIONS

The name of the plan is the Metabolix, Inc. 2014 Stock Option and Incentive Plan (the "Plan"). The purpose of the Plan is to encourage and enable the officers, employees, Non-Employee Directors and other key persons (including Consultants) of Metabolix, Inc., a Delaware corporation (the "Company"), and its Subsidiaries upon whose judgment, initiative and efforts the Company largely depends for the successful conduct of its business to acquire a proprietary interest in the Company. It is anticipated that providing such persons with a direct stake in the Company's welfare will assure a closer identification of their interests with those of the Company and its stockholders, thereby stimulating their efforts on the Company's behalf and strengthening their desire to remain with the Company.

The following terms shall be defined as set forth below:

"Act" means the Securities Act of 1933, as amended, and the rules and regulations thereunder.

"Administrator" means either the Board or the compensation committee of the Board or a similar committee performing the functions of the compensation committee and which is comprised of not less than two Non-Employee Directors who are independent.

"Award" or "Awards," except where referring to a particular category of grant under the Plan, shall include Incentive Stock Options, Non-Qualified Stock Options, Stock Appreciation Rights, Restricted Stock Units, Restricted Stock Awards, Unrestricted Stock Awards, Cash-Based Awards, Performance Share Awards and Dividend Equivalent Rights.

"Award Certificate" means a written or electronic document setting forth the terms and provisions applicable to an Award granted under the Plan. Each Award Certificate is subject to the terms and conditions of the Plan.

"Board" means the Board of Directors of the Company.

"Cash-Based Award" means an Award entitling the recipient to receive a cash-denominated payment.

"Code" means the Internal Revenue Code of 1986, as amended, and any successor Code, and related rules, regulations and interpretations.

"Consultant" means any natural person that provides bona fide services to the Company, and such services are not in connection with the offer or sale of securities in a capital-raising transaction and do not directly or indirectly promote or maintain a market for the Company's securities.

"Covered Employee" means an employee who is a "Covered Employee" within the meaning of Section 162(m) of the Code.

"Dividend Equivalent Right" means an Award entitling the grantee to receive credits based on cash dividends that would have been paid on the shares of Stock specified in the Dividend Equivalent Right (or other award to which it relates) if such shares had been issued to and held by the grantee.

"Effective Date" means the date on which the Plan is approved by stockholders as set forth in Section 21.

"Exchange Act" means the Securities Exchange Act of 1934, as amended, and the rules and regulations thereunder.

"Fair Market Value" of the Stock on any given date means the fair market value of the Stock determined in good faith by the Administrator; provided, however, that if the Stock is admitted to quotation on the National Association of Securities Dealers Automated Quotation System ("NASDAQ"), NASDAQ Global Market or another national securities exchange, the determination shall be made by reference to market quotations. If there are no market quotations for such date, the determination shall be made by reference to the last date preceding such date for which there are market quotations.

"Incentive Stock Option" means any Stock Option designated and qualified as an "incentive stock option" as defined in Section 422 of the Code.

"Non-Employee Director" means a member of the Board who is not also an employee of the Company or any Subsidiary.

"Non-Qualified Stock Option" means any Stock Option that is not an Incentive Stock Option.

"Option" or "Stock Option" means any option to purchase shares of Stock granted pursuant to Section 5.

"Performance-Based Award" means any Restricted Stock Award, Restricted Stock Units, Performance Share Award or Cash-Based Award granted to a Covered Employee that is intended to qualify as "performance-based compensation" under Section 162(m) of the Code and the regulations promulgated thereunder.

"Performance Criteria" means the criteria that the Administrator selects for purposes of establishing the Performance Goal or Performance Goals for an individual for a Performance Cycle. The Performance Criteria (which shall be applicable to the organizational level specified by the Administrator, including, but not limited to, the Company or a unit, division, group, or Subsidiary of the Company) that will be used to establish Performance Goals are limited to the following: total shareholder return, earnings before interest, taxes, depreciation and amortization, net income (loss) (either before or after interest, taxes, depreciation and/or amortization), stock price or changes in the market price of the Stock, customer satisfaction indicators, economic value-added, funds from operations or similar measure, sales or revenue, mergers, acquisitions, financing, corporate partnering or strategic transactions, operating income (loss), cash flow (including, but not limited to, operating cash flow and free cash flow), return on capital, assets, equity, or investment, shareholder returns, return on sales, gross or net profit levels, productivity, expense, margins, operating efficiency, customer satisfaction, working capital, earnings (loss) per share of Stock, sales or market shares, number of customers, branding establishment or awareness, technical product development and/or applications advances, commercial, research and development, engineering and/or manufacturing milestones, achievement of corporate collaborative agreement milestones and adjusted EBITDA, any of which may be measured either in absolute terms or as compared to any incremental increase or as compared to results of a peer group. The Committee may appropriately adjust any evaluation performance under a Performance Criterion to exclude any of the following events that occurs during a Performance Cycle: (i) asset write-downs or impairments, (ii) litigation or claim judgments or settlements, (iii) the effect of changes in tax law, accounting principles or other such laws or provisions affecting reporting results, (iv) accruals for reorganizations and restructuring programs, (v) any extraordinary non-recurring items, including those described in the Financial Accounting Standards Board's authoritative guidance and/or in management's discussion and analysis of financial condition of operations appearing the Company's annual report to stockholders for the applicable year, and (vi) any other extraordinary items adjusted from the Company U.S. GAAP results.

"Performance Cycle" means one or more periods of time, which may be of varying and overlapping durations, as the Administrator may select, over which the attainment of one or more Performance Criteria will be measured for the purpose of determining a grantee's right to and the payment of a

Restricted Stock Award, Restricted Stock Units, Performance Share Award or Cash-Based Award, the vesting and/or payment of which is subject to the attainment of one or more Performance Goals.

"Performance Goals" means, for a Performance Cycle, the specific goals established in writing by the Administrator for a Performance Cycle based upon the Performance Criteria.

"Performance Share Award" means an Award entitling the recipient to acquire shares of Stock upon the attainment of specified performance goals.

"Restricted Shares" means the shares of Stock underlying a Restricted Stock Award that remain subject to a risk of forfeiture or the Company's right of repurchase.

"Restricted Stock Award" means an Award of Restricted Shares subject to such restrictions and conditions as the Administrator may determine at the time of grant.

"Restricted Stock Units" means an Award of stock units subject to such restrictions and conditions as the Administrator may determine at the time of grant.

"Sale Event" shall mean (i) the sale of all or substantially all of the assets of the Company on a consolidated basis to an unrelated person or entity, (ii) a merger, reorganization or consolidation pursuant to which the holders of the Company's outstanding voting power and outstanding stock immediately prior to such transaction do not own a majority of the outstanding voting power and outstanding stock or other equity interests of the resulting or successor entity (or its ultimate parent, if applicable) immediately upon completion of such transaction, (iii) the sale of all of the Stock of the Company to an unrelated person, entity or group thereof acting in concert, or (iv) any other transaction in which the owners of the Company's outstanding voting power immediately prior to such transaction do not own at least a majority of the outstanding voting power of the Company or any successor entity immediately upon completion of the transaction other than as a result of the acquisition of securities directly from the Company.

"Sale Price" means the value as determined by the Administrator of the consideration payable, or otherwise to be received by stockholders, per share of Stock pursuant to a Sale Event.

"Section 409A" means Section 409A of the Code and the regulations and other guidance promulgated thereunder.

"Stock" means the Common Stock, par value \$0.01 per share, of the Company, subject to adjustments pursuant to Section 3.

"Stock Appreciation Right" means an Award entitling the recipient to receive shares of Stock having a value equal to the excess of the Fair Market Value of the Stock on the date of exercise over the exercise price of the Stock Appreciation Right multiplied by the number of shares of Stock with respect to which the Stock Appreciation Right shall have been exercised.

"Subsidiary" means any corporation or other entity (other than the Company) in which the Company has at least a 50 percent interest, either directly or indirectly.

"Ten Percent Owner" means an employee who owns or is deemed to own (by reason of the attribution rules of Section 424(d) of the Code) more than 10 percent of the combined voting power of all classes of stock of the Company or any parent or subsidiary corporation.

"Unrestricted Stock Award" means an Award of shares of Stock free of any restrictions.

SECTION 2. ADMINISTRATION OF PLAN; ADMINISTRATOR AUTHORITY TO SELECT GRANTEES AND DETERMINE AWARDS

- (a) *Administration of Plan.* The Plan shall be administered by the Administrator.
- (b) *Powers of Administrator.* The Administrator shall have the power and authority to grant Awards consistent with the terms of the Plan, including the power and authority:
- (i) to select the individuals to whom Awards may from time to time be granted;
 - (ii) to determine the time or times of grant, and the extent, if any, of Incentive Stock Options, Non-Qualified Stock Options, Stock Appreciation Rights, Restricted Stock Awards, Restricted Stock Units, Unrestricted Stock Awards, Cash-Based Awards, Performance Share Awards and Dividend Equivalent Rights, or any combination of the foregoing, granted to any one or more grantees;
 - (iii) to determine the number of shares of Stock to be covered by any Award;
 - (iv) to determine and modify from time to time the terms and conditions, including restrictions, not inconsistent with the terms of the Plan, of any Award, which terms and conditions may differ among individual Awards and grantees, and to approve the forms of Award Certificates;
 - (v) to accelerate at any time the exercisability or vesting of all or any portion of any Award in circumstances involving the grantee's death, disability, retirement or termination of employment, or a change in control (including a Sale Event)];
 - (vi) subject to the provisions of Section 5(c), to extend at any time the period in which Stock Options may be exercised; and
 - (vii) at any time to adopt, alter and repeal such rules, guidelines and practices for administration of the Plan and for its own acts and proceedings as it shall deem advisable; to interpret the terms and provisions of the Plan and any Award (including related written instruments); to make all determinations it deems advisable for the administration of the Plan; to decide all disputes arising in connection with the Plan; and to otherwise supervise the administration of the Plan.

All decisions and interpretations of the Administrator shall be binding on all persons, including the Company and Plan grantees.

(c) *Delegation of Authority to Grant Awards.* Subject to applicable law, the Administrator, in its discretion, may delegate to the Chief Executive Officer of the Company all or part of the Administrator's authority and duties with respect to the granting of Awards to individuals who are (i) not subject to the reporting and other provisions of Section 16 of the Exchange Act and (ii) not Covered Employees. Any such delegation by the Administrator shall include a limitation as to the amount of Stock underlying Awards that may be granted during the period of the delegation and shall contain guidelines as to the determination of the exercise price and the vesting criteria. The Administrator may revoke or amend the terms of a delegation at any time but such action shall not invalidate any prior actions of the Administrator's delegate or delegates that were consistent with the terms of the Plan.

(d) *Award Certificate.* Awards under the Plan shall be evidenced by Award Certificates that set forth the terms, conditions and limitations for each Award which may include, without limitation, the term of an Award and the provisions applicable in the event employment or service terminates.

(e) *Indemnification.* Neither the Board nor the Administrator, nor any member of either or any delegate thereof, shall be liable for any act, omission, interpretation, construction or determination made in good faith in connection with the Plan, and the members of the Board and the Administrator

(and any delegate thereof) shall be entitled in all cases to indemnification and reimbursement by the Company in respect of any claim, loss, damage or expense (including, without limitation, reasonable attorneys' fees) arising or resulting therefrom to the fullest extent permitted by law and/or under the Company's articles or bylaws or any directors' and officers' liability insurance coverage which may be in effect from time to time and/or any indemnification agreement between such individual and the Company.

(f) *Foreign Award Recipients.* Notwithstanding any provision of the Plan to the contrary, in order to comply with the laws in other countries in which the Company and its Subsidiaries operate or have employees or other individuals eligible for Awards, the Administrator, in its sole discretion, shall have the power and authority to: (i) determine which Subsidiaries shall be covered by the Plan; (ii) determine which individuals outside the United States are eligible to participate in the Plan; (iii) modify the terms and conditions of any Award granted to individuals outside the United States to comply with applicable foreign laws; (iv) establish subplans and modify exercise procedures and other terms and procedures, to the extent the Administrator determines such actions to be necessary or advisable (and such subplans and/or modifications shall be attached to this Plan as appendices); provided, however, that no such subplans and/or modifications shall increase the share limitations contained in Section 3(a) hereof; and (v) take any action, before or after an Award is made, that the Administrator determines to be necessary or advisable to obtain approval or comply with any local governmental regulatory exemptions or approvals. Notwithstanding the foregoing, the Administrator may not take any actions hereunder, and no Awards shall be granted, that would violate the Exchange Act or any other applicable United States securities law, the Code, or any other applicable United States governing statute or law.

SECTION 3. *STOCK ISSUABLE UNDER THE PLAN; MERGERS; SUBSTITUTION*

(a) *Stock Issuable.* The maximum number of shares of Stock reserved and available for issuance under the Plan shall be (i) 25,000,000 shares plus (ii) the number of shares of Stock underlying any awards under the Metabolix, Inc. 2006 Stock Option and Incentive Plan that are forfeited, canceled or terminated (other than by exercise) from and after the Effective Date, subject to adjustment as provided in this Section 3. For purposes of this limitation, the shares of Stock underlying any Awards that are forfeited, canceled or otherwise terminated (other than by exercise) shall be added back to the shares of Stock available for issuance under the Plan. Notwithstanding the foregoing, the following shares shall not be added to the shares authorized for grant under the Plan: (1) shares tendered or held back upon exercise of an Option or settlement of an Award to cover the exercise price or tax withholding, and (2) shares subject to a Stock Appreciation Right that are not issued in connection with the stock settlement of the Stock Appreciation Right upon exercise thereof. In the event the Company repurchases shares of Stock on the open market, such shares shall not be added to the shares of Stock available for issuance under the Plan. Subject to such overall limitations, shares of Stock may be issued up to such maximum number as set forth in clause (a) (i) above, pursuant to any type or types of Award; provided, however, that Stock Options or Stock Appreciation Rights with respect to no more 3,000,000 shares of Stock, may be granted to any one individual grantee during any one calendar year period. The shares available for issuance under the Plan may be authorized but unissued shares of Stock or shares of Stock reacquired by the Company.

(b) *Changes in Stock.* Subject to Section 3(c) hereof, if, as a result of any reorganization, recapitalization, reclassification, stock dividend, stock split, reverse stock split or other similar change in the Company's capital stock, the outstanding shares of Stock are increased or decreased or are exchanged for a different number or kind of shares or other securities of the Company, or additional shares or new or different shares or other securities of the Company or other non-cash assets are distributed with respect to such shares of Stock or other securities, or, if, as a result of any merger or consolidation, sale of all or substantially all of the assets of the Company, the outstanding shares of Stock are converted into or exchanged for securities of the Company or any successor entity (or a

parent or subsidiary thereof), the Administrator shall make an appropriate or proportionate adjustment in (i) the maximum number of shares reserved for issuance under the Plan, including the maximum number of shares that may be issued in the form of Incentive Stock Options, (ii) the number of Stock Options or Stock Appreciation Rights that can be granted to any one individual grantee and the maximum number of shares that may be granted under a Performance-Based Award, (iii) the number and kind of shares or other securities subject to any then outstanding Awards under the Plan, (iv) the repurchase price, if any, per share subject to each outstanding Restricted Stock Award, and (v) the exercise price for each share subject to any then outstanding Stock Options and Stock Appreciation Rights under the Plan, without changing the aggregate exercise price (i.e., the exercise price multiplied by the number of Stock Options and Stock Appreciation Rights) as to which such Stock Options and Stock Appreciation Rights remain exercisable. The Administrator shall also make equitable or proportionate adjustments in the number of shares subject to outstanding Awards and the exercise price and the terms of outstanding Awards to take into consideration cash dividends paid other than in the ordinary course or any other extraordinary corporate event. The adjustment by the Administrator shall be final, binding and conclusive. No fractional shares of Stock shall be issued under the Plan resulting from any such adjustment, but the Administrator in its discretion may make a cash payment in lieu of fractional shares.

(c) *Mergers and Other Transactions.* In the case of and subject to the consummation of a Sale Event, the parties thereto may cause the assumption or continuation of Awards theretofore granted by the successor entity, or the substitution of such Awards with new Awards of the successor entity or parent thereof, with appropriate adjustment as to the number and kind of shares and, if appropriate, the per share exercise prices, as such parties shall agree. To the extent the parties to such Sale Event do not provide for the assumption, continuation or substitution of Awards, upon the effective time of the Sale Event, the Plan and all outstanding Awards granted hereunder shall terminate. In such case, except as may be otherwise provided in the relevant Award Certificate, all Options and Stock Appreciation Rights that are not exercisable immediately prior to the effective time of the Sale Event shall become fully exercisable as of the effective time of the Sale Event, all other Awards with time-based vesting, conditions or restrictions shall become fully vested and nonforfeitable as of the effective time of the Sale Event, and all Awards with conditions and restrictions relating to the attainment of performance goals may become vested and nonforfeitable in connection with a Sale Event in the Administrator's discretion or to the extent specified in the relevant Award Certificate. In the event of such termination, (i) the Company shall have the option (in its sole discretion) to make or provide for a cash payment to the grantees holding Options and Stock Appreciation Rights, in exchange for the cancellation thereof, in an amount equal to the difference between (A) the Sale Price multiplied by the number of shares of Stock subject to outstanding Options and Stock Appreciation Rights (to the extent then exercisable at prices not in excess of the Sale Price) and (B) the aggregate exercise price of all such outstanding Options and Stock Appreciation Rights; or (ii) each grantee shall be permitted, within a specified period of time prior to the consummation of the Sale Event as determined by the Administrator, to exercise all outstanding Options and Stock Appreciation Rights (to the extent then exercisable) held by such grantee.

(d) *Substitute Awards.* The Administrator may grant Awards under the Plan in substitution for stock and stock-based awards held by employees, directors or other key persons of another corporation in connection with the merger or consolidation of the employing corporation with the Company or a Subsidiary or the acquisition by the Company or a Subsidiary of property or stock of the employing corporation. The Administrator may direct that the substitute awards be granted on such terms and conditions as the Administrator considers appropriate in the circumstances. Any substitute Awards granted under the Plan shall not count against the share limitation set forth in Section 3(a).

SECTION 4. *ELIGIBILITY*

Grantees under the Plan will be such full or part-time officers and other employees, Non-Employee Directors and Consultants of the Company and its Subsidiaries as are selected from time to time by the Administrator in its sole discretion.

SECTION 5. *STOCK OPTIONS*

(a) *Award of Stock Options.* The Administrator may grant Stock Options under the Plan. Any Stock Option granted under the Plan shall be in such form as the Administrator may from time to time approve.

Stock Options granted under the Plan may be either Incentive Stock Options or Non-Qualified Stock Options. Incentive Stock Options may be granted only to employees of the Company or any Subsidiary that is a "subsidiary corporation" within the meaning of Section 424(f) of the Code. To the extent that any Option does not qualify as an Incentive Stock Option, it shall be deemed a Non-Qualified Stock Option.

Stock Options granted pursuant to this Section 5 shall be subject to the following terms and conditions and shall contain such additional terms and conditions, not inconsistent with the terms of the Plan, as the Administrator shall deem desirable. If the Administrator so determines, Stock Options may be granted in lieu of cash compensation at the optionee's election, subject to such terms and conditions as the Administrator may establish.

(b) *Exercise Price.* The exercise price per share for the Stock covered by a Stock Option granted pursuant to this Section 5 shall be determined by the Administrator at the time of grant but shall not be less than 100 percent of the Fair Market Value on the date of grant. In the case of an Incentive Stock Option that is granted to a Ten Percent Owner, the option price of such Incentive Stock Option shall be not less than 110 percent of the Fair Market Value on the grant date.

(c) *Option Term.* The term of each Stock Option shall be fixed by the Administrator, but no Stock Option shall be exercisable more than ten years after the date the Stock Option is granted. In the case of an Incentive Stock Option that is granted to a Ten Percent Owner, the term of such Stock Option shall be no more than five years from the date of grant.

(d) *Exercisability; Rights of a Stockholder.* Stock Options shall become exercisable at such time or times, whether or not in installments, as shall be determined by the Administrator at or after the grant date. The Administrator may at any time accelerate the exercisability of all or any portion of any Stock Option. An optionee shall have the rights of a stockholder only as to shares acquired upon the exercise of a Stock Option and not as to unexercised Stock Options.

(e) *Method of Exercise.* Stock Options may be exercised in whole or in part, by giving written or electronic notice of exercise to the Company, specifying the number of shares to be purchased. Payment of the purchase price may be made by one or more of the following methods except to the extent otherwise provided in the Option Award Certificate:

(i) In cash, by certified or bank check or other instrument acceptable to the Administrator;

(ii) Through the delivery (or attestation to the ownership following such procedures as the Administrator may prescribe) of shares of Stock that are not then subject to restrictions under any Company plan. Such surrendered shares shall be valued at Fair Market Value on the exercise date;

(iii) By the optionee delivering to the Company a properly executed exercise notice together with irrevocable instructions to a broker to promptly deliver to the Company cash or a check payable and acceptable to the Company for the purchase price; provided that in the event the optionee chooses to pay the purchase price as so provided, the optionee and the broker shall

comply with such procedures and enter into such agreements of indemnity and other agreements as the Administrator shall prescribe as a condition of such payment procedure; or

(iv) With respect to Stock Options that are not Incentive Stock Options, by a "net exercise" arrangement pursuant to which the Company will reduce the number of shares of Stock issuable upon exercise by the largest whole number of shares with a Fair Market Value that does not exceed the aggregate exercise price.

Payment instruments will be received subject to collection. The transfer to the optionee on the records of the Company or of the transfer agent of the shares of Stock to be purchased pursuant to the exercise of a Stock Option will be contingent upon receipt from the optionee (or a purchaser acting in his stead in accordance with the provisions of the Stock Option) by the Company of the full purchase price for such shares and the fulfillment of any other requirements contained in the Option Award Certificate or applicable provisions of laws (including the satisfaction of any withholding taxes that the Company is obligated to withhold with respect to the optionee). In the event an optionee chooses to pay the purchase price by previously-owned shares of Stock through the attestation method, the number of shares of Stock transferred to the optionee upon the exercise of the Stock Option shall be net of the number of attested shares. In the event that the Company establishes, for itself or using the services of a third party, an automated system for the exercise of Stock Options, such as a system using an internet website or interactive voice response, then the paperless exercise of Stock Options may be permitted through the use of such an automated system.

(f) *Auto Exercise at Expiration.* The Company may provide in an Award Agreement that to the extent the Option remains unexercised, it will be exercised automatically by "net exercise" pursuant to Section 5(e)(iv) of the Plan immediately prior to the end of the Option Term.

(g) *Annual Limit on Incentive Stock Options.* To the extent required for "incentive stock option" treatment under Section 422 of the Code, the aggregate Fair Market Value (determined as of the time of grant) of the shares of Stock with respect to which Incentive Stock Options granted under this Plan and any other plan of the Company or its parent and subsidiary corporations become exercisable for the first time by an optionee during any calendar year shall not exceed \$100,000. To the extent that any Stock Option exceeds this limit, it shall constitute a Non-Qualified Stock Option.

SECTION 6. *STOCK APPRECIATION RIGHTS*

(a) *Award of Stock Appreciation Rights.* The Administrator may grant Stock Appreciation Rights under the Plan. A Stock Appreciation Right is an Award entitling the recipient to receive shares of Stock having a value equal to the excess of the Fair Market Value of a share of Stock on the date of exercise over the exercise price of the Stock Appreciation Right multiplied by the number of shares of Stock with respect to which the Stock Appreciation Right shall have been exercised.

(b) *Exercise Price of Stock Appreciation Rights.* The exercise price of a Stock Appreciation Right shall not be less than 100 percent of the Fair Market Value of the Stock on the date of grant.

(c) *Grant and Exercise of Stock Appreciation Rights.* Stock Appreciation Rights may be granted by the Administrator independently of any Stock Option granted pursuant to Section 5 of the Plan.

(d) *Terms and Conditions of Stock Appreciation Rights.* Stock Appreciation Rights shall be subject to such terms and conditions as shall be determined from time to time by the Administrator. The term of a Stock Appreciation Right may not exceed ten years.

SECTION 7. RESTRICTED STOCK AWARDS

(a) *Nature of Restricted Stock Awards.* The Administrator may grant Restricted Stock Awards under the Plan. A Restricted Stock Award is any Award of Restricted Shares subject to such restrictions and conditions as the Administrator may determine at the time of grant. Conditions may be based on continuing employment (or other service relationship) and/or achievement of pre-established performance goals and objectives. The terms and conditions of each such Award Certificate shall be determined by the Administrator, and such terms and conditions may differ among individual Awards and grantees.

(b) *Rights as a Stockholder.* Upon the grant of the Restricted Stock Award and payment of any applicable purchase price, a grantee shall have the rights of a stockholder with respect to the voting of the Restricted Shares and receipt of dividends; provided that if the lapse of restrictions with respect to the Restricted Stock Award is tied to the attainment of performance goals, any dividends paid by the Company during the performance period shall accrue and shall not be paid to the grantee until and to the extent the performance goals are met with respect to the Restricted Stock Award. Unless the Administrator shall otherwise determine, (i) uncertificated Restricted Shares shall be accompanied by a notation on the records of the Company or the transfer agent to the effect that they are subject to forfeiture until such Restricted Shares are vested as provided in Section 7(d) below, and (ii) certificated Restricted Shares shall remain in the possession of the Company until such Restricted Shares are vested as provided in Section 7(d) below, and the grantee shall be required, as a condition of the grant, to deliver to the Company such instruments of transfer as the Administrator may prescribe.

(c) *Restrictions.* Restricted Shares may not be sold, assigned, transferred, pledged or otherwise encumbered or disposed of except as specifically provided herein or in the Restricted Stock Award Certificate. Except as may otherwise be provided by the Administrator either in the Award Certificate or, subject to Section 18 below, in writing after the Award is issued, if a grantee's employment (or other service relationship) with the Company and its Subsidiaries terminates for any reason, any Restricted Shares that have not vested at the time of termination shall automatically and without any requirement of notice to such grantee from or other action by or on behalf of, the Company be deemed to have been reacquired by the Company at its original purchase price (if any) from such grantee or such grantee's legal representative simultaneously with such termination of employment (or other service relationship), and thereafter shall cease to represent any ownership of the Company by the grantee or rights of the grantee as a stockholder. Following such deemed reacquisition of Restricted Shares that are represented by physical certificates, a grantee shall surrender such certificates to the Company upon request without consideration.

(d) *Vesting of Restricted Shares.* The Administrator at the time of grant shall specify the date or dates and/or the attainment of pre-established performance goals, objectives and other conditions on which the non-transferability of the Restricted Shares and the Company's right of repurchase or forfeiture shall lapse. Subsequent to such date or dates and/or the attainment of such pre-established performance goals, objectives and other conditions, the shares on which all restrictions have lapsed shall no longer be Restricted Shares and shall be deemed "vested."

SECTION 8. RESTRICTED STOCK UNITS

(a) *Nature of Restricted Stock Units.* The Administrator may grant Restricted Stock Units under the Plan. A Restricted Stock Unit is an Award of stock units that may be settled in shares of Stock upon the satisfaction of such restrictions and conditions at the time of grant. Conditions may be based on continuing employment (or other service relationship) and/or achievement of pre-established performance goals and objectives. The terms and conditions of each such Award Certificate shall be determined by the Administrator, and such terms and conditions may differ among individual Awards and grantees. Except in the case of Restricted Stock Units with a deferred settlement date that complies with Section 409A, at the end of the vesting period, the Restricted Stock Units, to the extent

vested, shall be settled in the form of shares of Stock. Restricted Stock Units with deferred settlement dates are subject to Section 409A and shall contain such additional terms and conditions as the Administrator shall determine in its sole discretion in order to comply with the requirements of Section 409A.

(b) *Election to Receive Restricted Stock Units in Lieu of Compensation.* The Administrator may, in its sole discretion, permit a grantee to elect to receive a portion of future cash compensation otherwise due to such grantee in the form of an award of Restricted Stock Units. Any such election shall be made in writing and shall be delivered to the Company no later than the date specified by the Administrator and in accordance with Section 409A and such other rules and procedures established by the Administrator. Any such future cash compensation that the grantee elects to defer shall be converted to a fixed number of Restricted Stock Units based on the Fair Market Value of Stock on the date the compensation would otherwise have been paid to the grantee if such payment had not been deferred as provided herein. The Administrator shall have the sole right to determine whether and under what circumstances to permit such elections and to impose such limitations and other terms and conditions thereon as the Administrator deems appropriate. Any Restricted Stock Units that are elected to be received in lieu of cash compensation shall be fully vested, unless otherwise provided in the Award Certificate.

(c) *Rights as a Stockholder.* A grantee shall have the rights as a stockholder only as to shares of Stock acquired by the grantee upon settlement of Restricted Stock Units; provided, however, that the grantee may be credited with Dividend Equivalent Rights with respect to the stock units underlying his Restricted Stock Units, subject to the provisions of Section 11 and such terms and conditions as the Administrator may determine.

(d) *Termination.* Except as may otherwise be provided by the Administrator either in the Award Certificate or, subject to Section 18 below, in writing after the Award is issued, a grantee's right in all Restricted Stock Units that have not vested shall automatically terminate upon the grantee's termination of employment (or cessation of service relationship) with the Company and its Subsidiaries for any reason.

SECTION 9. *UNRESTRICTED STOCK AWARDS*

Grant or Sale of Unrestricted Stock. The Administrator may grant (or sell at par value or such higher purchase price determined by the Administrator) an Unrestricted Stock Award under the Plan. An Unrestricted Stock Award is an Award pursuant to which the grantee may receive shares of Stock free of any restrictions under the Plan. Unrestricted Stock Awards may be granted in respect of past services or other valid consideration, or in lieu of cash compensation due to such grantee.

SECTION 10. *CASH-BASED AWARDS*

Grant of Cash-Based Awards. The Administrator may grant Cash-Based Awards under the Plan. A Cash-Based Award is an Award that entitles the grantee to a payment in cash upon the attainment of specified Performance Goals. The Administrator shall determine the maximum duration of the Cash-Based Award, the amount of cash to which the Cash-Based Award pertains, the conditions upon which the Cash-Based Award shall become vested or payable, and such other provisions as the Administrator shall determine. Each Cash-Based Award shall specify a cash-denominated payment amount, formula or payment ranges as determined by the Administrator. Payment, if any, with respect to a Cash-Based Award shall be made in accordance with the terms of the Award and may be made in cash.

SECTION 11. *PERFORMANCE SHARE AWARDS*

(a) *Nature of Performance Share Awards.* The Administrator may grant Performance Share Awards under the Plan. A Performance Share Award is an Award entitling the grantee to receive

shares of Stock upon the attainment of performance goals. The Administrator shall determine whether and to whom Performance Share Awards shall be granted, the performance goals, the periods during which performance is to be measured, which may not be less than one year except in the case of a Sale Event, and such other limitations and conditions as the Administrator shall determine.

(b) *Rights as a Stockholder.* A grantee receiving a Performance Share Award shall have the rights of a stockholder only as to shares of Stock actually received by the grantee under the Plan and not with respect to shares subject to the Award but not actually received by the grantee. A grantee shall be entitled to receive shares of Stock under a Performance Share Award only upon satisfaction of all conditions specified in the Performance Share Award Certificate (or in a performance plan adopted by the Administrator).

(c) *Termination.* Except as may otherwise be provided by the Administrator either in the Award agreement or, subject to Section 18 below, in writing after the Award is issued, a grantee's rights in all Performance Share Awards shall automatically terminate upon the grantee's termination of employment (or cessation of service relationship) with the Company and its Subsidiaries for any reason.

SECTION 12. *PERFORMANCE-BASED AWARDS TO COVERED EMPLOYEES*

(a) *Performance-Based Awards.* The Administrator may grant one or more Performance-Based Awards in the form of a Restricted Stock Award, Restricted Stock Units, Performance Share Awards or Cash-Based Award payable upon the attainment of Performance Goals that are established by the Administrator and relate to one or more of the Performance Criteria, in each case on a specified date or dates or over any period or periods determined by the Administrator. The Administrator shall define in an objective fashion the manner of calculating the Performance Criteria it selects to use for any Performance Cycle. Depending on the Performance Criteria used to establish such Performance Goals, the Performance Goals may be expressed in terms of overall Company performance or the performance of a division, business unit, or an individual. Each Performance-Based Award shall comply with the provisions set forth below.

(b) *Grant of Performance-Based Awards.* With respect to each Performance-Based Award granted to a Covered Employee, the Administrator shall select, within the first 90 days of a Performance Cycle (or, if shorter, within the maximum period allowed under Section 162(m) of the Code) the Performance Criteria for such grant, and the Performance Goals with respect to each Performance Criterion (including a threshold level of performance below which no amount will become payable with respect to such Award). Each Performance-Based Award will specify the amount payable, or the formula for determining the amount payable, upon achievement of the various applicable performance targets. The Performance Criteria established by the Administrator may be (but need not be) different for each Performance Cycle and different Performance Goals may be applicable to Performance-Based Awards to different Covered Employees.

(c) *Payment of Performance-Based Awards.* Following the completion of a Performance Cycle, the Administrator shall meet to review and certify in writing whether, and to what extent, the Performance Goals for the Performance Cycle have been achieved and, if so, to also calculate and certify in writing the amount of the Performance-Based Awards earned for the Performance Cycle. The Administrator shall then determine the actual size of each Covered Employee's Performance-Based Award.

(d) *Maximum Award Payable.* The maximum Performance-Based Award payable to any one Covered Employee under the Plan for a Performance Cycle is 3,000,000 shares of Stock (subject to adjustment as provided in Section 3(b) hereof) or \$10,000,000 in the case of a Performance-Based Award that is a Cash-Based Award.

SECTION 13. *DIVIDEND EQUIVALENT RIGHTS*

(a) *Dividend Equivalent Rights.* The Administrator may grant Dividend Equivalent Rights under the Plan. A Dividend Equivalent Right is an Award entitling the grantee to receive credits based on cash dividends that would have been paid on the shares of Stock specified in the Dividend Equivalent Right (or other Award to which it relates) if such shares had been issued to the grantee. A Dividend Equivalent Right may be granted hereunder to any grantee as a component of an award of Restricted Stock Units, Restricted Stock Award or Performance Share Award or as a freestanding award. The terms and conditions of Dividend Equivalent Rights shall be specified in the Award Certificate. Dividend equivalents credited to the holder of a Dividend Equivalent Right may be paid currently or may be deemed to be reinvested in additional shares of Stock, which may thereafter accrue additional equivalents. Any such reinvestment shall be at Fair Market Value on the date of reinvestment or such other price as may then apply under a dividend reinvestment plan sponsored by the Company, if any. Dividend Equivalent Rights may be settled in cash or shares of Stock or a combination thereof, in a single installment or installments. A Dividend Equivalent Right granted as a component of an Award of Restricted Stock Units or Performance Share Award shall provide that such Dividend Equivalent Right shall be settled only upon settlement or payment of, or lapse of restrictions on, such other Award, and that such Dividend Equivalent Right shall expire or be forfeited or annulled under the same conditions as such other Award.

(b) *Termination.* Except as may otherwise be provided by the Administrator either in the Award Certificate or, subject to Section 18 below, in writing after the Award is issued, a grantee's rights in all Dividend Equivalent Rights shall automatically terminate upon the grantee's termination of employment (or cessation of service relationship) with the Company and its Subsidiaries for any reason.

SECTION 14. *TRANSFERABILITY OF AWARDS*

(a) *Transferability.* Except as provided in Section 14(b) below, during a grantee's lifetime, his or her Awards shall be exercisable only by the grantee, or by the grantee's legal representative or guardian in the event of the grantee's incapacity. No Awards shall be sold, assigned, transferred or otherwise encumbered or disposed of by a grantee other than by will or by the laws of descent and distribution or pursuant to a domestic relations order. No Awards shall be subject, in whole or in part, to attachment, execution, or levy of any kind, and any purported transfer in violation hereof shall be null and void.

(b) *Administrator Action.* Notwithstanding Section 14(a), the Administrator, in its discretion, may provide either in the Award Certificate regarding a given Award or by subsequent written approval that the grantee (who is an employee or director) may transfer his or her Non-Qualified Options to his or her immediate family members, to trusts for the benefit of such family members, or to partnerships in which such family members are the only partners, provided that the transferee agrees in writing with the Company to be bound by all of the terms and conditions of this Plan and the applicable Award. In no event may an Award be transferred by a grantee for value.

(c) *Family Member.* For purposes of Section 14(b), "family member" shall mean a grantee's child, stepchild, grandchild, parent, stepparent, grandparent, spouse, former spouse, sibling, niece, nephew, mother-in-law, father-in-law, son-in-law, daughter-in-law, brother-in-law, or sister-in-law, including adoptive relationships, any person sharing the grantee's household (other than a tenant of the grantee), a trust in which these persons (or the grantee) have more than 50 percent of the beneficial interest, a foundation in which these persons (or the grantee) control the management of assets, and any other entity in which these persons (or the grantee) own more than 50 percent of the voting interests.

(d) *Designation of Beneficiary.* To the extent permitted by the Company, each grantee to whom an Award has been made under the Plan may designate a beneficiary or beneficiaries to exercise any Award or receive any payment under any Award payable on or after the grantee's death. Any such

designation shall be on a form provided for that purpose by the Administrator and shall not be effective until received by the Administrator. If no beneficiary has been designated by a deceased grantee, or if the designated beneficiaries have predeceased the grantee, the beneficiary shall be the grantee's estate.

SECTION 15. *TAX WITHHOLDING*

(a) *Payment by Grantee.* Each grantee shall, no later than the date as of which the value of an Award or of any Stock or other amounts received thereunder first becomes includable in the gross income of the grantee for Federal income tax purposes, pay to the Company, or make arrangements satisfactory to the Administrator regarding payment of, any Federal, state, or local taxes of any kind required by law to be withheld by the Company with respect to such income. The Company and its Subsidiaries shall, to the extent permitted by law, have the right to deduct any such taxes from any payment of any kind otherwise due to the grantee. The Company's obligation to deliver evidence of book entry (or stock certificates) to any grantee is subject to and conditioned on tax withholding obligations being satisfied by the grantee.

(b) *Payment in Stock.* Subject to approval by the Administrator, a grantee may elect to have the Company's minimum required tax withholding obligation satisfied, in whole or in part, by authorizing the Company to withhold from shares of Stock to be issued pursuant to any Award a number of shares with an aggregate Fair Market Value (as of the date the withholding is effected) that would satisfy the withholding amount due. The Administrator may also require Awards to be subject to mandatory share withholding up to the required withholding amount. For purposes of share withholding, the Fair Market Value of withheld shares shall be determined in the same manner as the value of Stock includable in income of the Participants.

SECTION 16. *SECTION 409A AWARDS*

To the extent that any Award is determined to constitute "nonqualified deferred compensation" within the meaning of Section 409A (a "409A Award"), the Award shall be subject to such additional rules and requirements as specified by the Administrator from time to time in order to comply with Section 409A. In this regard, if any amount under a 409A Award is payable upon a "separation from service" (within the meaning of Section 409A) to a grantee who is then considered a "specified employee" (within the meaning of Section 409A), then no such payment shall be made prior to the date that is the earlier of (i) six months and one day after the grantee's separation from service, or (ii) the grantee's death, but only to the extent such delay is necessary to prevent such payment from being subject to interest, penalties and/or additional tax imposed pursuant to Section 409A. Further, the settlement of any such Award may not be accelerated except to the extent permitted by Section 409A.

SECTION 17. *TERMINATION OF EMPLOYMENT, TRANSFER, LEAVE OF ABSENCE, ETC.*

(a) *Termination of Employment.* If the grantee's employer ceases to be a Subsidiary, the grantee shall be deemed to have terminated employment for purposes of the Plan.

(b) For purposes of the Plan, the following events shall not be deemed a termination of employment:

(i) a transfer to the employment of the Company from a Subsidiary or from the Company to a Subsidiary, or from one Subsidiary to another; or

(ii) an approved leave of absence for military service or sickness, or for any other purpose approved by the Company, if the employee's right to re-employment is guaranteed either by a statute or by contract or under the policy pursuant to which the leave of absence was granted or if the Administrator otherwise so provides in writing.

SECTION 18. *AMENDMENTS AND TERMINATION*

The Board may, at any time, amend or discontinue the Plan and the Administrator may, at any time, amend or cancel any outstanding Award for the purpose of satisfying changes in law or for any other lawful purpose, but no such action shall adversely affect rights under any outstanding Award without the holder's consent. Except as provided in Section 3(c) or 3(d), without prior stockholder approval, in no event may the Administrator exercise its discretion to reduce the exercise price of outstanding Stock Options or Stock Appreciation Rights or effect repricing through cancellation and re-grants or cancellation of Stock Options or Stock Appreciation Rights in exchange for cash. To the extent required under the rules of any securities exchange or market system on which the Stock is listed, to the extent determined by the Administrator to be required by the Code to ensure that Incentive Stock Options granted under the Plan are qualified under Section 422 of the Code, or to ensure that compensation earned under Awards qualifies as performance-based compensation under Section 162(m) of the Code, Plan amendments shall be subject to approval by the Company stockholders entitled to vote at a meeting of stockholders. Nothing in this Section 18 shall limit the Administrator's authority to take any action permitted pursuant to Section 3(b) or 3(c).

SECTION 19. *STATUS OF PLAN*

With respect to the portion of any Award that has not been exercised and any payments in cash, Stock or other consideration not received by a grantee, a grantee shall have no rights greater than those of a general creditor of the Company unless the Administrator shall otherwise expressly determine in connection with any Award or Awards. In its sole discretion, the Administrator may authorize the creation of trusts or other arrangements to meet the Company's obligations to deliver Stock or make payments with respect to Awards hereunder, provided that the existence of such trusts or other arrangements is consistent with the foregoing sentence.

SECTION 20. *GENERAL PROVISIONS*

(a) *No Distribution.* The Administrator may require each person acquiring Stock pursuant to an Award to represent to and agree with the Company in writing that such person is acquiring the shares without a view to distribution thereof.

(b) *Delivery of Stock Certificates.* Stock certificates to grantees under this Plan shall be deemed delivered for all purposes when the Company or a stock transfer agent of the Company shall have mailed such certificates in the United States mail, addressed to the grantee, at the grantee's last known address on file with the Company. Uncertificated Stock shall be deemed delivered for all purposes when the Company or a Stock transfer agent of the Company shall have given to the grantee by electronic mail (with proof of receipt) or by United States mail, addressed to the grantee, at the grantee's last known address on file with the Company, notice of issuance and recorded the issuance in its records (which may include electronic "book entry" records). Notwithstanding anything herein to the contrary, the Company shall not be required to issue or deliver any certificates evidencing shares of Stock pursuant to the exercise of any Award, unless and until the Administrator has determined, with advice of counsel (to the extent the Administrator deems such advice necessary or advisable), that the issuance and delivery of such certificates is in compliance with all applicable laws, regulations of governmental authorities and, if applicable, the requirements of any exchange on which the shares of Stock are listed, quoted or traded. All Stock certificates delivered pursuant to the Plan shall be subject to any stop-transfer orders and other restrictions as the Administrator deems necessary or advisable to comply with federal, state or foreign jurisdiction, securities or other laws, rules and quotation system on which the Stock is listed, quoted or traded. The Administrator may place legends on any Stock certificate to reference restrictions applicable to the Stock. In addition to the terms and conditions provided herein, the Administrator may require that an individual make such reasonable covenants, agreements, and representations as the Administrator, in its discretion, deems necessary or advisable in order to comply with any such laws, regulations, or requirements. The Administrator shall have the

right to require any individual to comply with any timing or other restrictions with respect to the settlement or exercise of any Award, including a window-period limitation, as may be imposed in the discretion of the Administrator.

(c) *Stockholder Rights.* Until Stock is deemed delivered in accordance with Section 20(b), no right to vote or receive dividends or any other rights of a stockholder will exist with respect to shares of Stock to be issued in connection with an Award, notwithstanding the exercise of a Stock Option or any other action by the grantee with respect to an Award.

(d) *Other Compensation Arrangements; No Employment Rights.* Nothing contained in this Plan shall prevent the Board from adopting other or additional compensation arrangements, including trusts, and such arrangements may be either generally applicable or applicable only in specific cases. The adoption of this Plan and the grant of Awards do not confer upon any employee any right to continued employment with the Company or any Subsidiary.

(e) *Trading Policy Restrictions.* Option exercises and other Awards under the Plan shall be subject to the Company's insider trading policies and procedures, as in effect from time to time.

(f) *Clawback Policy.* Awards under the Plan shall be subject to the Company's clawback policy, as in effect from time to time.

SECTION 21. *EFFECTIVE DATE OF PLAN*

This Plan shall become effective on the Effective Date upon stockholder approval of the Plan in accordance with applicable state law, the Company's bylaws and articles of incorporation, and applicable stock exchange rules or pursuant to written consent. No grants of Stock Options and other Awards may be made hereunder after the tenth anniversary of the Effective Date and no grants of Incentive Stock Options may be made hereunder after the tenth anniversary of the date the Plan is approved by the Board.

SECTION 22. *GOVERNING LAW*

This Plan and all Awards and actions taken thereunder shall be governed by, and construed in accordance with, the laws of the State of Delaware, applied without regard to conflict of law principles.

DATE APPROVED BY BOARD OF DIRECTORS: September 11, 2014

DATE APPROVED BY STOCKHOLDERS:

Form of proxy

**METABOLIX, INC.
SPECIAL MEETING OF STOCKHOLDERS**

**October 30, 2014
9:30 a.m. Eastern Time
Exchange Place
53 State Street
Boston, MA 02109**

**THIS PROXY IS SOLICITED ON BEHALF OF THE COMPANY'S BOARD OF DIRECTORS
FOR THE SPECIAL MEETING OF STOCKHOLDERS TO BE HELD OCTOBER 30, 2014.**

The undersigned hereby constitutes and appoints JOSEPH SHAULSON and JOSEPH D. HILL, and each of them acting in the absence of the other with full power of substitution, the true and lawful attorneys and proxies of the undersigned, to attend the Special Meeting of the Stockholders of METABOLIX, INC. (the "**Company**"), to be held at the offices of Goodwin Procter LLP at Exchange Place, 53 State Street, Boston, MA 02109, on October 30, 2014, at 9:30 a.m. Eastern time, and any adjournments or postponements thereof, and to vote all shares of the Company's Common Stock outstanding in the name of the undersigned on the matters set forth on the reverse side and upon any other matters that may come properly before the meeting or any adjournments or postponements thereof, with all the powers the undersigned would possess if personally present at the meeting, as follows:

See reverse for voting instructions.

**Special Meeting of Stockholders of
Metabolix, Inc.
October 30, 2014**

Important Notice Regarding Internet Availability of Proxy Materials for the Special Meeting:

**The proxy statement is available
at <http://ir.metabolix.com/index.cfm>.
Please date, sign and mail your proxy card in
the envelope provided as soon as possible.**

Please detach along perforated line and mail in the envelope provided

The Board of Directors Unanimously Recommends a Vote FOR Proposals 1, 2 and 3:

Please sign, date and return promptly in the enclosed envelope. Please mark your vote in blue or black ink as shown here

- | | FOR | AGAINST | ABSTAIN |
|--|--------------------------|--------------------------|--------------------------|
| 1. To approve an amendment to the Company's Certificate of Incorporation to increase the number of authorized shares of the Company's Common Stock from 100,000,000 to 250,000,000 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| FOR AGAINST ABSTAIN | | | |
| 2. To authorize the Board of Directors of the Company to further amend the Company's Certificate of Incorporation to effect a reverse stock split of the Common Stock by a ratio in the range of 1-for-2 to 1-for-10, with the Board of Directors having the discretion as to whether or not the reverse split is to be effected, and with the exact ratio of any reverse split to be set at a whole number within the above range, as determined by the Board of Directors in its discretion. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| FOR AGAINST ABSTAIN | | | |
| 3. To approve the Company's 2014 Stock Option and Incentive Plan | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

THIS PROXY WILL BE VOTED AS DIRECTED OR, IF NO CONTRARY DIRECTION IS INDICATED, WILL BE VOTED FOR ALL PROPOSALS; AND AS THE PROXY HOLDERS DEEM ADVISABLE ON SUCH OTHER MATTERS AS MAY COME BEFORE THE MEETING, OR ANY ADJOURNMENTS OR POSTPONEMENTS THEREOF.

VOTE BY MAIL

Mark, sign, and date your proxy card. Return it in the postage-paid envelope we have provided or return it to Metabolix, Inc., c/o American Stock Transfer & Trust Company, 6201 15th Avenue, Brooklyn, NY 10219.

To change the address on your account, please check the box at right and indicate your new address in the address space above. Please note that changes to the registered name(s) on the account may not be submitted via this method.

Signature of Stockholder

Signature of Stockholder

Date:

Date:

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

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[Appendix A](#)

[METABOLIX, INC. 2014 STOCK OPTION AND INCENTIVE PLAN](#)

[Form of proxy METABOLIX, INC. SPECIAL MEETING OF STOCKHOLDERS October 30, 2014 9:30 a.m. Eastern Time Exchange Place 53 State Street Boston, MA 02109](#)

[THIS PROXY IS SOLICITED ON BEHALF OF THE COMPANY'S BOARD OF DIRECTORS FOR THE SPECIAL MEETING OF STOCKHOLDERS TO BE HELD OCTOBER 30, 2014.](#)

[Special Meeting of Stockholders of Metabolix, Inc. October 30, 2014 Important Notice Regarding Internet Availability of Proxy Materials for the Special Meeting: The proxy statement is available at <http://ir.metabolix.com/index.cfm>. Please date, sign and mail your proxy card in the envelope provided as soon as possible.](#)

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