

Annual Meeting of Stockholders

May 8, 2018

**Important Notice Regarding the Availability of Proxy Materials for the Annual Meeting of Stockholders
To Be Held on May 8, 2018**

The Annual Report on Form 10-K and the Proxy Statement for the Annual Meeting are available at <http://ir.atomera.com>.

ATOMERA INCORPORATED
THIS PROXY IS SOLICITED ON BEHALF OF THE BOARD OF DIRECTORS

The undersigned, revoking all prior proxies, hereby appoints John Gerber and Scott Bibaud, with full power of substitution, as proxy to represent and vote all shares of Common Stock, of Atomera Incorporated (the “Company”), which the undersigned will be entitled to vote if personally present at the Annual Meeting of the Stockholders of the Company to be held on May 8, 2018, at 1:00 p.m. PT at the Company’s corporate headquarters, located at 750 University Avenue, Suite 280, Los Gatos, California 95032. Each share of Common Stock is entitled to one vote. THE PROXIES ARE FURTHER AUTHORIZED TO VOTE, IN THEIR DISCRETION, UPON SUCH OTHER BUSINESS AS MAY PROPERLY COME BEFORE THE MEETING.

This proxy, when properly executed, will be voted as directed. If no direction is made, the proxy shall be voted **FOR** the election of the listed nominees as directors, **FOR** the ratification of the appointment of Marcum LLP as the Company’s independent auditors for the fiscal year ending December 31, 2018, and, in the case of other matters that legally come before the meeting, as said proxies may deem advisable.

Directions to the Annual Meeting can be obtained by calling (408) 442-5246. Please check here if you plan to attend the Annual Meeting of Stockholders on May 8, 2018 at 1:00 p.m. (PT).

(Continued and to be signed on Reverse Side)

VOTE ON INTERNET

Go to <http://www.vstocktransfer.com/proxy> and log-on using the below control number.

CONTROL #

VOTE BY MAIL

Mark, sign and date your proxy card and return it in the envelope we have provided.

VOTE IN PERSON

If you would like to vote in person, please attend the Annual Meeting to be held on May 8, 2018 at 1:00 p.m. PT.

VOTE BY E-MAIL

Mark, sign and date your proxy card and send it to vote@vstocktransfer.com.

VOTE BY FAX

Mark, sign and date your proxy card and fax it to 646-536-3179.

* SPECIMEN *
1 MAIN STREET
ANYWHERE PA 99999-9999

Please Vote, Sign, Date and Return Promptly in the Enclosed Envelope, or via Fax.

Annual Meeting Proxy Card - Common Stock

▼ DETACH PROXY CARD HERE TO VOTE BY MAIL ▼

THE BOARD OF DIRECTORS RECOMMENDS A VOTE "FOR" ALL DIRECTOR NOMINEES AND "FOR" PROPOSAL 2.

(1) Election of Directors:

FOR ALL NOMINEES LISTED BELOW
(except as marked to the contrary below)

WITHHOLD AUTHORITY TO VOTE FOR
ALL NOMINEES LISTED BELOW

INSTRUCTION: TO WITHHOLD AUTHORITY TO VOTE FOR ONE OR MORE INDIVIDUAL NOMINEES STRIKE A LINE THROUGH THE NOMINEES' NAMES BELOW:

01 John Gerber

02 Scott Bibaud

03 Erwin Trautmann

04 C. Rinn Cleavelin

05 Rolf Stadheim

06 Steve Shevick

(2) To ratify the appointment of Marcum LLP as the Company's independent registered public accounting firm for the year ending December 31, 2018.

VOTE FOR

VOTE AGAINST

ABSTAIN

Date

Signature

Signature, if held jointly

Note: This proxy must be signed exactly as the name appears hereon. 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 a duly authorized officer, giving full title as such. If signer is a partnership, please sign in partnership name by an authorized person.

To change the address on your account, please check the box at right and indicate your new address.



* SPECIMEN *

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