

ANNUAL MEETING OF STOCKHOLDERS OF
VEECO INSTRUMENTS INC.

May 3, 2018

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IMPORTANT NOTICE REGARDING THE AVAILABILITY OF PROXY MATERIALS FOR THE ANNUAL MEETING OF STOCKHOLDERS TO BE HELD ON MAY 3, 2018:

The Notice, Proxy Statement and Annual Report to Stockholders are available at www.veeco.com.

Please sign, date and mail your proxy card in the envelope provided as soon as possible.

↓ Please detach along perforated line and mail in the envelope provided. ↓

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THE BOARD OF DIRECTORS RECOMMENDS A VOTE "FOR" THE ELECTION OF ALL DIRECTOR NOMINEES AND "FOR" PROPOSALS 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

1. ELECTION OF DIRECTORS:

FOR ALL NOMINEES

NOMINEES:

- Richard A. D'Amore Class III director
 Keith D. Jackson Class III director

WITHHOLD AUTHORITY FOR ALL NOMINEES

FOR ALL EXCEPT (See instructions below)

INSTRUCTIONS: To withhold authority to vote for any individual nominee(s), mark "FOR ALL EXCEPT" and fill in the circle next to each nominee you wish to withhold, as shown here: ●

2. APPROVAL OF THE ADVISORY VOTE ON EXECUTIVE COMPENSATION

FOR AGAINST ABSTAIN

3. RATIFICATION OF THE APPOINTMENT OF KPMG LLP AS INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM OF THE COMPANY FOR THE FISCAL YEAR ENDING DECEMBER 31, 2018

FOR AGAINST ABSTAIN

In their discretion, the proxies are authorized to vote upon such other business as may properly come before the Annual Meeting. This proxy when properly executed will be voted as directed herein by the undersigned stockholder. **If no direction is made, this proxy will be voted FOR ALL NOMINEES in Proposal 1 and FOR Proposals 2 and 3.**

MARK "X" HERE IF YOU PLAN TO ATTEND THE MEETING.

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

Date:

Signature of Stockholder

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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VEECO INSTRUMENTS INC.

Proxy for Annual Meeting of Stockholders on May 3, 2018

Solicited on Behalf of the Board of Directors

The undersigned hereby appoints John R. Peeler and Shubham Maheshwari, or either of them, each with full power of substitution and re-substitution, proxies to vote at the Annual Meeting of Stockholders of Veeco Instruments Inc. to be held on May 3, 2018 at 8:30 a.m. (ET) at 333 South Service Road, Plainview, New York 11803 and at all adjournments or postponements thereof, all shares of common stock of Veeco Instruments Inc. which the undersigned is entitled to vote as directed on the reverse side, and in their discretion upon such other matters as may come before the meeting or any adjournment or postponement thereof.

(Continued and to be signed on the reverse side)