ANNUAL MEETING OF SHAREHOLDERS OF **XENON PHARMACEUTICALS INC.**

June 1, 2020

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

PLEASE SIGN, DATE AND RETURN PROMPTLY IN THE ENCLOSED ENVELOPE. PLEASE MARK YOUR VOTE IN BLUE OR BLACK INK AS SHOWN HERE 🗴			
MANAGEMENT RECOMMENDS VOTING "FOR" ALL OF THE FOLL YEAR" FOR ITEM 3.	OWING ITEM	IS AND "1	
1. Election of Directors	FOR	WITHHOLD	Appointment of Proxyholder
Michael Tarnow			I/We being holder(s) of Common Shares of Xenon Pharmaceuticals Inc. (the
Mohammad Azab			"Corporation"), hereby appoint Simon Pimstone, Chief Executive Officer of the Corporation or failing him, Ian Mortimer, President, Chief Financial Officer and
Clarissa Desjardins			Corporate Secretary of the Corporation OR, instead of any of the foregoing
Steven Gannon			
Michael Hayden			Print the name of the person you are appointing if this person is someone other than the individuals listed above as proxy of the undersigned, to attend, act and vote on behalf of the undersigned in
Frank Holler			accordance with the direction provided on all the foregoing matters and any other
Gary Patou			matter that may properly come before the Annual Meeting of Shareholders of the Corporation to be held at 11:30 a.m. PDT on June 1, 2020, at Xenon Pharmaceuticals
Simon Pimstone			Inc., 200 - 3650 Gilmore Way, Burnaby, British Columbia, Canada, and at any and all adjournments or postponements thereof in the same manner, to the same extent and
Dawn Svoronos			with the same powers as if the undersigned were personally present, with full power
2. Compensation of Named Executive Officers		NST ABSTAIN	of substitution.
Approve, on an advisory basis, the compensation of the Corporation named executive officers	's		
3. Frequency of Future Shareholder Advisory Votes on the Compensation of Named Executive Officers 1 yea	r 2 years 3 ye	ears ABSTAIN	De sue at fan Einen siel Otstansente
Approve, on an advisory basis, the frequency of future shareholder			Request for Financial Statements
advisory votes to approve the compensation of the Corporation's named executive officers			In accordance with Canadian securities regulations, shareholders may elect to receive Interim Financial Statements and related MD&As, and may elect to not receive Annual Financial Statements and related MD&As.
4. Amendment and Restatement of 2014 Equity Incentive Plan		NST ABSTAIN	
Approve the amendment and restatement of the Corporation's 201 Equity Incentive Plan	4		Instead of receiving the financial statements by mail, you may choose to view these documents on SEDAR at <u>www.sedar.com</u> .
5. Appointment of Auditor	FOR	WITHHOLD	I am a shareholder of the Corporation, and as such request the
Appointment of KPMG LLP as Auditor			following:
6. Remuneration of Auditor	FOR AGAI	NST ABSTAIN	Annual Financial Statement with MD&A
Authorizing the Audit Committee of the board of directors of the Corporation to fix the remuneration to be paid to the Auditor			(Mark this box if you would NOT like to receive the Annual Financial └── Statements and related MD&A)
I/We authorize you to act in accordance with my/our instructions set out above. I/We hereby revoke any proxy previously given with respect to the Meeting. If no voting			Interim Financial Statement with MD&A
instructions are indicated above, this Proxy will be voted FOR all of the foregoing items and 1 YEAR for Item 3 by any of the proxyholders appointed by management of the Corporation or, if you appoint another proxyholder, as that other proxyholder sees fit. On any amendments			(Mark this box if you would like to receive the Interim Financial Lagrandian Statements and related MD&A)
or variations proposed or any new business properly submitted before the Meeting, I/we authorize you to vote as you see fit.		e authorize	If you are casting your vote online and wish to receive financial
			statements, please complete the online request for financial statements following your voting instructions.
			If the cut-off time has passed, please fax this side to 718-765-8730.
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.			
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Signature of Shareholder	Date:		Signature of Shareholder 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.