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 \boxtimes

Filed by a party other than the Registrant \Box

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

MIRA Pharmaceuticals, 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 all boxes that apply):

☑ No fee required

□ Fee paid previously with preliminary materials.

□ Fee computed on table in exhibit required by Item 25(b) per Exchange Act Rules 14a- 6(i)(1) and 0-11

ANNUAL MEETING OF STOCKHOLDERS OF

MIRA Pharmaceuticals, Inc.

September 12, 2024

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NOTICE OF INTERNET AVAILABILITY OF PROXY MATERIAL: The Notice of Meeting, Proxy Statement and Proxy Card are available at https://www.astproxyportal.com/ast/27484

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

 $rac{1}{2}$ Please detach along perforated line and mail in the envelope provided.

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THE BOARD OF DIRECTORS RECOMMENDS A VOTE "FO PLEASE SIGN, DATE AND RETURN PROMPTLY IN THE ENCLOSED E	R" THE ELECTION OF DIRECTORS AND "FOR" PROPOSALS 2, 3 AND 4. NVELOPE. PLEASE MARK YOUR VOTE IN BLUE OR BLACK INK AS SHOWN HERE 🗵
1. Election of Directors: MOMINEES: FOR ALL NOMINEES FOR ALL NOMINEES Michael Jerman Michael Jerman Matthew Paul Del Giudice, M.D. Denil Nanji Shekhat, M.D. Constructions below	2. Ratification of Cherry Bekaert LLP as the Company's independent registered public accounting firm for the fiscal year ending December 31, 2024. 3. Approval of certain amendments to the Company's 2022 Omnibus Incentive Plan (the "Plan") to increase the number of shares available. 4. The approval of an adjournment for the above items.
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:	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, 3 and 4.
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.	MARK "X" HERE IF YOU PLAN TO ATTEND THE MEETING.

MIRA Pharmaceuticals, Inc. ANNUAL MEETING OF STOCKHOLDERS September 12, 2024 THIS PROXY IS BEING SOLICITED ON BEHALF OF THE BOARD OF DIRECTORS

The stockholder(s) hereby appoints Erez Aminov, as proxy, with the power to appoint his substitute, to represent and to vote, as designated on the reverse side of this proxy, all of the shares of common stock of MIRA Pharmaceuticals, Inc. that the stockholder(s) is/are entitled to vote at the Annual Meeting of Stockholders to be held beginning at 10:00 a.m. Eastern Time online at https://web.lumiconnect.com/241211965 on September 12, 2024, and any adjournment or postponement thereof. The undersigned hereby acknowledges receipt of the Notice of Annual Stockholders' Meeting and of the accompanying proxy statement, the terms of each of which are incorporated by reference, and revokes any proxy heretofore given with respect to such meeting.

THE BOARD OF DIRECTORS RECOMMENDS A VOTE "FOR" THE NOMINEES LISTED IN ITEM 1 AND "FOR" ITEM 2, ITEM 3 AND ITEM 4. This proxy when properly executed will be voted in the manner directed.

(Continued and to be signed on the reverse side)

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