FORM 3

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL							
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person*     Weller Harry R	2. Date of Ever Requiring State (Month/Day/Ye 09/30/2015	ement	3. Issuer Name and Ticker or Trading Symbol  Mirna Therapeutics, Inc. [ MIRN ]							
(Last) (First) (Middle) 1954 GREENSPRING DRIVE			4. Relationship of Reporting Person(s) to Issuer (Check all applicable)     Director X 10% Owner			5. If Amendment, Date of Original Filed (Month/Day/Year)				
SUITE 600			Officer (give title below)	Other (spec below)	Appl	icable Line)	Group Filing (Check			
(Street) TIMONIUM MD 21093						•	One Reporting Person  More than One erson			
(City) (State) (Zip)										
Table I - Non-Derivative Securities Beneficially Owned										
1. Title of Security (Instr. 4)			2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)		ature of Indirect Beneficial Ownership r. 5)				
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)										
1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securitic Underlying Derivative Security		4. Conversion or Exercise Price of	5. Ownership Form: Direct (D)	6. Nature of Indirect Beneficial Ownership (Instr. 5)			
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Derivative Security	or Indirect (I) (Instr. 5)				
Series C Preferred Stock <sup>(1)</sup>	(2)	(3)	Common Stock	1,241,649	0.00	I	See Note 4 <sup>(4)</sup>			
Series D Preferred Stock <sup>(5)</sup>	(2)	(3)	Common Stock	583,559	0.00	I	See Note 4 <sup>(4)</sup>			

## Explanation of Responses:

- 1. Each share of Series C Preferred Stock will automatically convert on a one-to-one basis into Common Stock immediately prior to the consummation of the Issuer's initial public offering.
- 2. The securities are immediately convertible.
- 3. The expiration date is not relevant to the conversion of these securities.
- 4. The Reporting Person is a director of NEA 14 GP, LTD, which is the sole general partner of NEA Partners 14, L.P. ("NEA Partners 14"). NEA Partners 14 is the sole general partner of New Enterprise Associates 14, L.P. ("NEA 14"), which is the direct beneficial owner of the securities. The Reporting Person disclaims beneficial ownership, within the meaning of Section 16 of the Securities Exchange Act of 1934, as amended, or otherwise of such portion of the NEA 14 shares in which the Reporting Person has no pecuniary interest.
- 5. Each share of Series D Preferred Stock will automatically convert on a one-to-one basis into Common Stock immediately prior to the consummation of the Issuer's initial public offering.

## Remarks:

/s/ Sasha Keough, attorney-in-

<u>fact</u>

\*\* Signature of Reporting Person

09/30/2015

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- \* If the form is filed by more than one reporting person, see Instruction 5 (b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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