FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APP	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* Florence Anthony A. Jr.			2. Date of Event Requiring Statement (Month/Day/Year) 09/30/2015 3. Issuer Name and Ticker or Trading Symbol Mirna Therapeutics, Inc. [MIRN]								
	5425 WISCONSIN AVENUE		Relationship of Reporting Person(s) to Issuer (Check all applicable) Director			5. If Amendment, Date of Original Filed (Month/Day/Year)					
SUITE 800 (Street)				Officer (give title below)	Other (spec below)	Appli	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person				
CHEVY CHASE	MD	20815						Form filed by Reporting Pe	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. Ownershi Form: Direct or Indirect ((Instr. 5)	t (D) (Instr.	4. Nature of Indirect Beneficial Ownership (Instr. 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 Securities Underlying Derivative Security (Instr. 4)		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 Prefer	rred Stock ⁽¹⁾		(2)	(3)	Common Stock	1,241,649	0.00	I	See Note 4 ⁽⁴⁾		
Series D Prefe	rred Stock ⁽⁵⁾		(2)	(3)	Common Stock	583,559	0.00	I	See Note 4 ⁽⁴⁾		

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

Date

09/30/2015

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.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.