

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

Check this box  
if no longer  
subject to  
Section 16.  
Form 4 or  
Form 5  
obligations  
may continue.  
*See* Instruction  
1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,  
Section 17(a) of the Public Utility Holding Company Act of 1935 or Section  
30(h) of the Investment Company Act of 1940

OMB Number: 3235-0287

Expires: January 31, 2005

Estimated average burden hours per response... 0.5

1. Name and Address of Reporting Person \*  
THOMSON MARTIN A

2. Issuer Name **and** Ticker or Trading Symbol  
First Federal of Northern Michigan Bancorp, Inc. [FFNM]

### 5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)  
100 SOUTH SECOND AVENUE  
(Street)

3. Date of Earliest Transaction  
(Month/Day/Year)  
09/18/2008

\_\_\_\_\_X\_\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
 \_\_\_\_\_ Officer (give title \_\_\_\_\_ Other (specify  
 below) below)

4. If Amendment, Date Original  
Filed(Month/Day/Year)

6. Individual or Joint/Group Filing (Check Applicable Line)  
☒ Form filed by One Reporting Person  
☐ Form filed by More than One Reporting Person

ALPENA, MI 49707

(City) (State) (Zip)

## Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1

Common Stock, par value \$0.01 per share	7,969	I	By 401(k)
Common Stock, par value \$0.01 per share	4,731	I	By spouse's IRA

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

**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 control number.**

SEC 1474  
(9-02)

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned**  
(e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Pri Deriv Secur (Instr
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Options	\$ 9.2					03/14/2007	03/14/2016	Common Stock	2,500 (2)
Stock Options	\$ 9.65					05/17/2007	05/17/2016	Common Stock	22,100 (3)
Stock Option	\$ 7.44					03/27/2003	03/27/2012	Common Stock	1,848 (4)

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
THOMSON MARTIN A 100 SOUTH SECOND AVENUE ALPENA, MI 49707	X			

## Signatures

/s/ Steven T. Lanter, pursuant to power of  
attorney

09/19/2008

\_\_Signature of Reporting Person

Date

## Explanation of Responses:

- \* If the form is filed by more than one reporting person, *see* Instruction 4(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).
- (1) Represents shares of restricted stock that vest over a five year period, commencing on May 17, 2006, at the rate of 20% per year.
- (2) Represents stock options that vest over a five year period, commencing on March 14, 2006, at the rate of 20% per year.
- (3) Represents stock options that vest over a five year period, commencing on May 17, 2006, at the rate of 20% per year.
- (4) Represents stock options that vest over a five year period, commencing on March 27, 2002, at the rate of 20% per year.

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

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