First Federal of Northern Michigan Bancorp, Inc.
Form 4
December 22, 2009

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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 APPROVAL

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

(Print or Type Responses)

1. Name and Address of Reporting Person *
VANMASSENHOVE GARY C

(Last) (First) (Middle)

100 SOUTH SECOND AVENUE

(Street)

ALPENA, MI 49707

(City) (State) (Zip)

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

3. Date of Earliest Transaction (Month/Day/Year)
12/22/2009

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

__X__ Director _____ 10% Owner
_____ Officer (give title below) _____ Other (specify below)

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

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

1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock, par value $0.01 per share	12/22/2009		P		635	A	$ 1.27	2,427	I	By IRA1
Common Stock, par value $0.01 per share	12/22/2009		P		765	A	$ 1.19	3,192	I	By IRA 1
Common Stock, par value $0.01 per share								3,789	I	By IRA2

Common Stock, par value $0.01 per share	7,769 (1)	D	
Common Stock, par value $0.01 per share	1,250	I	By Spouse IRA

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

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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. Pric 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	5,900 (3)	

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
VANMASSENHOVE GARY C 100 SOUTH SECOND AVENUE ALPENA, MI 49707	X			

Signatures

/s/ Robert B. Pomerenk, Pursuant to Power of Attorney	12/22/2009
**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) Includes 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 March 17, 2006, 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.
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