

Mattson H Michael
 Form 4
 February 18, 2010

FORM 4

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

OMB APPROVAL

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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

(Print or Type Responses)

1. Name and Address of Reporting Person *
 Mattson H Michael

2. Issuer Name and Ticker or Trading Symbol
 GUARANTY FEDERAL BANCSHARES INC [GFED]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
 4585 S PARKHILL
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
 02/18/2010

____ Director
 Officer (give title below)
 ____ 10% Owner
 ____ Other (specify below)
 Exec VP - CLO

SPRINGFIELD, MO 65810

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

(City) (State) (Zip)

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 Ownership (Instr. 4)
				(A) or (D) Code V Amount (D) Price			
COMMON STOCK	02/18/2010		P	A \$ 5.5375	2,000	I	IRA SELF
COMMON STOCK					4,150	I	IRA SELF
COMMON STOCK					1,354.422	I	ESOP

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

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