

COMMERCE BANCSHARES INC /MO/
 Form 4
 March 29, 2007

FORM 4

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

OMB APPROVAL

OMB Number: 3235-0287
 Expires: January 31, 2005
 Estimated average burden hours per response... 0.5

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

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 *
KEMPER JONATHAN M

2. Issuer Name and Ticker or Trading Symbol
COMMERCE BANCSHARES INC /MO/ [CBSH]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
1000 WALNUT ST., 7TH FLOOR
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
03/28/2007

Director 10% Owner
 Officer (give title below) Other (specify below)
 Vice Chairman

KANSAS CITY, MO 64106

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 Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|----------------------------------------------------|--------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------|
| Common Stock | 03/28/2007 | | A | V Amount \$ 235 (D) 48.35 | 45,774 | I | Exec Comp Plan |
| Common Stock | | | | | 1,002,897 | D | |
| Common Stock | | | | | 19,861 | I | 401K |
| Common Stock | | | | | 20,981 | I | Charlotte Kemper Trs |
| Common Stock | | | | | 26,064 | I | David BR Kemper Trst |

| | | | |
|--------------|---------|---|----------------------|
| Common Stock | 123,972 | I | Irrev Trust for self |
| Common Stock | 43,985 | I | Irrev Trust-children |
| Common Stock | 217,920 | I | Julie Kemper Irrev |
| Common Stock | 20,961 | I | Nicolas Kemper Trst |
| Common Stock | 158,244 | I | Tower Properties Co |

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. Price of Derivative Security (Instr. 5) | 9. Number of Derivative Securities Owned Beneficially (Instr. 6) |
|--------------------------------------------|--------------------------------------------------------|--------------------------------------|----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------|
|--------------------------------------------|--------------------------------------------------------|--------------------------------------|----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------|

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--------------------------------------------------------------------------|---------------|-----------|---------------|-------|
| | Director | 10% Owner | Officer | Other |
| KEMPER JONATHAN M 1000 WALNUT ST., 7TH FLOOR KANSAS CITY, MO 64106 | X | | Vice Chairman | |

Signatures

By: Jeffery Aberdeen For: Jonathan M. Kemper
03/29/2007

__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).

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.