COMMERCE BANCSHARES INC /MO/
Form 4
August 31, 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 *
KEMPER JONATHAN M

(Last) (First) (Middle)

1000 WALNUT ST., 7TH FLOOR

(Street)

KANSAS CITY, MO 64106

(City) (State) (Zip)

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

3. Date of Earliest Transaction (Month/Day/Year)
08/27/2009

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

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	08/27/2009		S		23	D	$ 38.0119 (1)	1,155,749	D	
Common Stock	08/28/2009		S		10	D	$ 38.075 (2)	1,155,739	D	
Common Stock	08/27/2009		S		23	D	$ 38.0119 (1)	216,190	I	Julie Kemper Irrev
Common Stock	08/28/2009		S		10	D	$ 38.075 (2)	216,180	I	Julie Kemper Irrev
								24,218	I	401K

Common Stock				
Common Stock		23,131	I	Charlotte Kemper Trs
Common Stock		28,735	I	David BR Kemper Trst
Common Stock		53,275	I	Exec Comp Plan
Common Stock		136,678	I	Irrev Trust for self
Common Stock		48,493	I	Irrev Trust-children
Common Stock		23,109	I	Nicolas Kemper Trst
Common Stock		174,463	I	Tower Properties Co

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. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Owne Follo Repo Trans (Instr
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		

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	08/31/2009
**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) Range of sales prices for 8/27/2009 is $38.00 to $38.05 per share.

(2) Range of sales prices for 8/28/2009 is $38.00 to $38.18 per share.

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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