

# FORM 4

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

OMB APPROVAL

OMB Number: 3235-0287  
Expires: February 28, 2011  
Estimated average burden  
hours per response.....0.5

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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

1. Name and Address of Reporting Person* Thomas A. McDonnell Kansas City Southern PO Box 219335 Kansas City MO 64121-9335	2. Issuer Name and Ticker or Trading Symbol Kansas City Southern [KSU]	5. Relationship of Reporting Person(s) to Issuer (check all applicable) <input checked="" type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below)
	3. Date of Earliest Transaction Required to be Reported (Month/Day/Year) 05/06/2010	
	4. If amendment, Date Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> 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 (mm/dd/yy)	2A. Deemed Execution Date, if any (mm/dd/yy)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, & 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3, & 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	05/06/2010		A		2,360	A	\$0	75,859	D	
Common Stock								500,000 (1)	I	By West Side Investments, Inc.

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

\* If the form is filed by more than one reporting person, see Instruction 4(b)(v).

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.

Form 4 (cont.)  
Name and Address of Reporting Person  
Thomas A. McDonnell  
Kansas City Southern  
PO Box 219335  
Kansas City MO 64121-9335

Issuer Name and Ticker or Trading Symbol  
Kansas City Southern [KSU]

Period Of Report  
05/06/2010

**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 (mm/dd/yy)	3A. Deemed Execution Date, if any (mm/dd/yy)	4. Transaction Code (Instr. 8)		5. No. of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, & 5)		6. Date Exercisable and Expiration Date (mm/dd/yy)		7. Title and Amount of Underlying Securities (Instr. 3 & 4)		8. Price of Derivative Security (Instr. 5)	9. No. of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3, & 4)	10. Ownership Form of Derivative Securities: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Option (Right to Buy) (2)	\$11.54							03/18/2004	03/17/2013	Common Stock	20,000		20,000	D	
LSAR (2)	\$11.54							(2)	(2)	Common Stock	20,000		20,000	D	
Option (Right to Buy) (2)	\$11.05							05/01/2004	04/30/2013	Common Stock	10,000		10,000	D	
LSAR (2)	\$11.05							(2)	(2)	Common Stock	10,000		10,000	D	
Option (Right to Buy) (2)	\$13.80							05/04/2005	05/05/2014	Common Stock	10,000		10,000	D	
LSAR (2)	\$13.80							(2)	(2)	Common Stock	10,000		10,000	D	

Explanation of Responses:

- (1) - West Side Investments, Inc. is a wholly owned subsidiary of DST Systems, Inc. The reporting person is a Director and President and CEO of DST Systems, Inc. The reporting person disclaims beneficial ownership of these securities, and this report shall not be deemed an admission that the reporting person is the beneficial owner of such securities for purposes of Section 16 or for any other purpose.
- (2) - Limited Stock Appreciation Rights ("LSARs") are granted in tandem with stock options. LSARs become exercisable only following a change-in-control of the Company in lieu of related options and are exercisable only for cash. LSARs terminate when the related options are exercised or terminated.

By: Brian P. Banks, Attorney-In-Fact  
\*\*Signature of Reporting Person

5/7/2010  
Date