

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL	
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1. Name and Address of Reporting Person* BUESE MARK R			2. Issuer Name and Ticker or Trading Symbol KIRBY CORP [KEX]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) Senior Vice President		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 09/14/2007			6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person		
55 WAUGH DRIVE, SUITE 1000			4. If Amendment, Date of Original Filed (Month/Day/Year)					
(Street) HOUSTON TX 77007								
(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)
			Code	V	Amount	(A) or (D)	Price			
Common Stock, par value \$.10 per share	09/14/2007		M		15,000	A	\$9.9375	37,030	D	
Common Stock, par value \$.10 per share	09/14/2007		M		16,000	A	\$12.775	53,030	D	
Common Stock, par value \$.10 per share	09/14/2007		S		31,000	D	\$39.3472	22,030	D	
Common Stock, par value \$.10 per share								2,211	I	401(k) Plan

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 Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date						Title
Employee Stock Option (Right to Buy)	\$9.9375	09/14/2007		M		15,000		01/20/2002 ⁽¹⁾	01/20/2008	Common Stock	15,000	\$9.9375	48,000	D	
Employee Stock Option (Right to Buy)	\$12.775	09/14/2007		M		16,000		01/27/2006 ⁽²⁾	01/27/2008	Common Stock	16,000	\$12.775	32,000	D	

Explanation of Responses:

- Original option exercisable 25% after one year, 50% after two years, 75% after three years and 100% after four years from date of grant.
- Original option exercisable 33% after one year, 67% after two years and 100% after three years from date of grant.

Remarks:

G. Stephen Holcomb, Agent and Attorney-in-Fact 09/17/2007
 ** Signature of Reporting Person Date

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).

** 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.

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 Number.