

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* SIMS JACK M | | | 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) Vice President | | |
| (Last) | (First) | (Middle) | 3. Date of Earliest Transaction (Month/Day/Year) 08/01/2005 | | | 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 | 08/01/2005 | | M | | 10,000 | A | \$18.5625 | 13,008 | D | |
| Common Stock, par value \$.10 per share | 08/01/2005 | | M | | 3,000 | A | \$17.9063 | 16,008 | D | |
| Common Stock, par value \$.10 per share | 08/01/2005 | | M | | 8,000 | A | \$27.13 | 24,008 | D | |
| Common Stock, par value \$.10 per share | 08/01/2005 | | S | | 21,000 | D | \$48.5 | 3,008 | D | |
| Common Stock, par value \$.10 per share | 08/01/2005 | | A | | 55 | A | (1) | 1,907 | I | 401(k) Plan |
| Common Stock, par value \$.10 per share | 08/01/2005 | | I ⁽²⁾ | | 1,907 | D | \$49.26 | 0 | 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) | \$18.5625 | 08/01/2005 | | M | | 10,000 | | 01/20/2001 ⁽³⁾ | 01/20/2007 | Common Stock | 10,000 | \$18.5625 | 27,500 | D | |
| Employee Stock Option (Right to Buy) | \$17.9063 | 08/01/2005 | | M | | 3,000 | | 01/18/2003 ⁽³⁾ | 01/18/2009 | Common Stock | 3,000 | \$17.9063 | 24,500 | D | |
| Employee Stock Option (Right to Buy) | \$27.13 | 08/01/2005 | | M | | 8,000 | | 01/28/2005 ⁽⁴⁾ | 01/28/2007 | Common Stock | 8,000 | \$27.13 | 16,500 | D | |

Explanation of Responses:

- These shares were acquired from January 1, 2005 through July 18, 2005 pursuant to the Kirby Corporation 401(k) Plan, at prices ranging from \$39.40 to \$47.19. The information reported herein is based on a plan statement dated August 1, 2005.
- These shares were transferred from indirectly owned 401(k) stock into another investment option within the Kirby Corporation 401(k) Plan.
- 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

08/03/2005

** 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.