LUMINEX CORP Form 5

February 14, 2011

FORM 5

OMB APPROVAL

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

OMB 3235-0362 Number: January 31,

no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction

Check this box if

Expires: 2005 Estimated average

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

burden hours per response... 1.0

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, 1(b). Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section Reported

Form 4

30(h) of the Investment Company Act of 1940

Transactions Reported

| 2. Issuer Name and Ticker or Trading Symbol LUMINEX CORP [LMNX] | 5. Relationship of Reporting Person(s) to Issuer | | | |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| 3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2010 | (Check all applicable) _X_ Director 10% Owner Officer (give title Other (specify | | | |
| | below) below) | | | |
| 4. If Amendment, Date Original Filed(Month/Day/Year) | 6. Individual or Joint/Group Reporting (check applicable line) | | | |
| | Symbol LUMINEX CORP [LMNX] 3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2010 4. If Amendment, Date Original | | | |

AUSTIN, TXÂ 78727

X Form Filed by One Reporting Person Form Filed by More than One Reporting

| (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. Securit (A) or Dis (D) (Instr. 3, 4) | sposed | of | 5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
| Common Stock | 12/29/2010 | Â | G | 10,000 (1) | D | \$ 0 | 722,810 (2) | D | Â |
| Common Stock | Â | Â | Â | Â | Â | Â | 772,490 (2) | I | Spouse (3) |
| Common Stock | Â | Â | Â | Â | Â | Â | 96,614 (2) | I | Partnership (3) |
| Common Stock | Â | Â | Â | Â | Â | Â | 914,084 (2) | I | Trusts (3) |

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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 2270 (9-02)

of D

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of | 2. | 3. Transaction Date | 3A. Deemed | 4. | 5. | 6. Date Exerc | cisable and | 7. Title | e and | 8. Price of | |
|-------------|-------------|---------------------|--------------------|-------------|------------|---------------|-------------|----------|----------|-------------|--|
| Derivative | Conversion | (Month/Day/Year) | Execution Date, if | Transaction | Number | Expiration D | ate | Amou | nt of | Derivative | |
| Security | or Exercise | | any | Code | of | (Month/Day/ | Year) | Under | lying | Security | |
| (Instr. 3) | Price of | | (Month/Day/Year) | (Instr. 8) | Derivative | • | | Securi | ties | (Instr. 5) | |
| | Derivative | | | | Securities | | | (Instr. | 3 and 4) | | |
| | Security | | | | Acquired | | | | | | |
| | • | | | | (A) or | | | | | | |
| | | | | | Disposed | | | | | | |
| | | | | | of (D) | | | | | | |
| | | | | | (Instr. 3, | | | | | | |
| | | | | | 4, and 5) | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | Amount | | |
| | | | | | | Date | Expiration | | or | | |
| | | | | | | Exercisable | Date | | Number | | |
| | | | | | | Lacicisable | Dute | | of | | |
| | | | | | (A) (D) | | | | Shares | | |

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

LOEWENBAUM G WALTER II

12212 TECHNOLOGY BOULEVARD Â X Â Â

AUSTIN, TXÂ 78727

Signatures

/S/ HARRISS T. CURRIE, AS ATTORNEY-IN-FACT FOR G. WALTER LOEWENBAUM

02/14/2011

**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) These shares were gifted as a charitable contribution by G. Walter Loewenbaum.
- (2) In addition to the effects of the reported transaction, the reported balances include the effects of changes in the reporting person's beneficial ownership not otherwise reportable on Form 4 or Form 5.

The reporting person disclaims beneficial ownership of these securities except to the extent of his pecuniary interest therein, and the inclusion of these shares in this report shall not be deemed an admission of beneficial ownership of all of the reported shares for purposes of Section 16 or for any other purpose.

Note: File three copies of this Form, one of which must be manually signed. If space provided 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.

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