

| OMB APPROVAL | |
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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

| | | |
|---|--|---|
| 1. Name and Address of Reporting Person * <u>Plooster Matthew R</u> (Last) (First) (Middle) <u>C/O KEMPHARM, INC.</u> <u>2656 CROSSPARK ROAD, SUITE 100</u> (Street) <u>CORALVILLE IA 52241</u> (City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol <u>KEMPHARM, INC [KMPH]</u> | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below) |
| | 3. Date of Earliest Transaction (Month/Day/Year) <u>08/25/2015</u> | |
| | 4. If Amendment, Date of Original Filed (Month/Day/Year) | 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 |

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 | | | |

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 |
| Stock Option (right to buy) | \$19.02 | 08/25/2015 | | A | | 10,000 | | (1) | 08/24/2025 | Common Stock | 10,000 | \$0.00 | 10,000 | D | |
| Stock Option (right to buy) | \$19.02 | 08/25/2015 | | A | | 12,000 | | (2) | 08/24/2025 | Common Stock | 12,000 | \$0.00 | 12,000 | D | |

Explanation of Responses:

- Grant to the Reporting Person of a stock option under the Issuer's 2014 Equity Incentive Plan (the "Plan"). One hundred percent (100%) of the shares subject to the option shall vest on the earlier of (i) the first anniversary of the date of grant or (ii) one day prior to the date of the first annual meeting of the Issuer's stockholders following the date of grant, in each case subject to the Reporting Person's continuous service as of such date. The option expires ten years after the date of grant.
- Grant to the Reporting Person of a stock option under the Plan. The shares underlying the option shall vest in equal annual installments beginning on August 25, 2016 through August 25, 2018, provided that, upon the occurrence of certain events the vesting of the options will be accelerated with respect to 100% of the shares. The option expires ten years after the date of grant.

Remarks:

James C.T. Linfield, as
Attorney-in-Fact for Matthew R. Plooster 08/27/2015

** 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.