Lawler Mary Katherine Form 4 February 20, 2018

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL OMB

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if no longer subject to Section 16. Form 4 or Form 5

obligations

may continue.

See Instruction

Check this box

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(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Lawler Mary Katherine Issuer Symbol ILLINOIS TOOL WORKS INC (Check all applicable) [ITW] 3. Date of Earliest Transaction (Last) (First) (Middle) Director 10% Owner X_ Officer (give title Other (specify (Month/Day/Year) below) below) ILLINOIS TOOL WORKS 02/15/2018 SVP & Chief HR Officer INC., 155 HARLEM AVENUE (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting

GLENVIEW, IL 60025

(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 5. Amount of 1. Title of 2. Transaction Date 2A. Deemed 3. 4. Securities Acquired 6. 7. Nature of Security (Month/Day/Year) Execution Date, if Transaction(A) or Disposed of (D) Securities Ownership Indirect

(Instr. 3) Code (Instr. 3, 4 and 5) Beneficially Form: Direct Beneficial (Month/Day/Year) (Instr. 8) Owned Ownership (D) or Following Indirect (I) (Instr. 4) Reported (Instr. 4) (A) Transaction(s) or (Instr. 3 and 4) Code V Amount (D) Price Common \$0 02/15/2018 A M 4,070 5,932 D Stock Common 02/15/2018 F D $4,718 \frac{(1)}{}$ D 1,214 Stock

See Common I Footnote 216 Stock (2)

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

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Person

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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)			6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and A Underlying S (Instr. 3 and
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title
Employee Stock Option	\$ 98.26						02/13/2016(3)	02/13/2025	Common Stock
Performance Restricted Stock Unit (granted 2/13/15) (4)	\$ 0	02/15/2018		M		4,070	<u>(5)</u>	<u>(5)</u>	Common Stock
Employee Stock Option	\$ 91.88						02/12/2017(3)	02/12/2026	Common Stock
Performance Restricted Stock Unit (granted 2/12/2016)	\$ 0						<u>(6)</u>	<u>(6)</u>	Common Stock
Employee Stock Option	\$ 128						02/10/2018(3)	02/10/2027	Common Stock
Performance Share Units (granted 2/10/17) (4) (7)	\$ 0						<u>(6)</u>	<u>(6)</u>	Common Stock
Performance Share Units (granted 2/15/18) (4) (7)	\$ 0	02/15/2018		A	2,027		<u>(6)</u>	<u>(6)</u>	Common Stock
Employee Stock Option	\$ 163.36	02/15/2018		A	17,279		02/15/2019(3)	02/15/2028	Common Stock

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Lawler Mary Katherine
ILLINOIS TOOL WORKS INC.
155 HARLEM AVENUE
GLENVIEW, IL 60025

SVP & Chief HR Officer

Signatures

Mary K. Lawler, by Janet O. Love, Deputy General Counsel & Assistant Secretary, Attorney-In-Fact, POA on File

02/20/2018

**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) Includes 54 shares acquired under a dividend reinvestment plan.
- (2) Shares of common stock allocated to my account in the Illinois Tool Works Inc. Savings & Investment Plan--Information reported as of February 15, 2018.
- (3) Options vest in four (4) equal annual installments beginning one year from date of grant.
- (4) Each performance restricted stock unit (PRSU) and performance share unit (PSU) represents a contingent right to receive one share of the Company's common stock.
- (5) The PRSU award became vested and payable on February 15, 2018.
- (6) Each PRSU and PSU vests 100% three years from the date of grant if performance goals are met.
- (7) PSUs accrue dividends in shares of common stock, subject to fulfillment of vesting period and performance goals; the PSUs shown include dividend equivalents accrued, if any, to date.

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