Dean Sharon L. Form 4 December 21, 2012

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to Section 16. Form 4 or

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Form 5 obligations may continue.

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 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person *

Dean Sharon L.

2. Issuer Name and Ticker or Trading

Symbol

Allison Transmission Holdings Inc

[ALSN]

(Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year)

12/21/2012

(Street)

4. If Amendment, Date Original

Filed(Month/Day/Year)

Code

Director

X_ Officer (give title Other (specify below) below)

(Check all applicable)

10% Owner

5. Relationship of Reporting Person(s) to

OMB APPROVAL

3235-0287

January 31,

2005

0.5

OMB

Number:

Expires:

response...

Estimated average

burden hours per

VP, Quality and Reliability

Applicable Line)

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

6. Individual or Joint/Group Filing(Check

Person

Issuer

INDIANAPOLIS, IN 46222

ONE ALLISON WAY

(City) (State) (Zip)

(Month/Day/Year)

2. Transaction Date 2A. Deemed

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

3. 4. Securities TransactionAcquired (A) or

Disposed of (D) (Instr. 3, 4 and 5) (Instr. 8)

5. Amount of Securities Beneficially Owned

Following

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial (I) (Instr. 4)

Ownership (Instr. 4)

SEC 1474

(9-02)

Reported (A) Transaction(s) (Instr. 3 and 4) Code V Amount (D) Price

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

Execution Date, if

(Month/Day/Year)

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number.

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

1. Title of Derivative Security

1. Title of

Security

(Instr. 3)

Conversion or Exercise

3. Transaction Date 3A. Deemed (Month/Day/Year)

Execution Date, if any

4. 5. Number Transaction of Derivative Expiration Date Code Securities

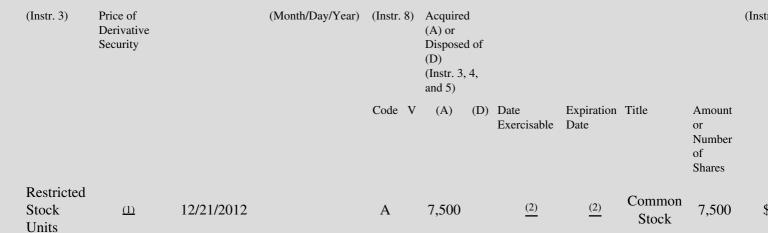
6. Date Exercisable and (Month/Day/Year)

7. Title and Amount of 8. Pr **Underlying Securities** (Instr. 3 and 4)

Deri

Secu

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Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Dean Sharon L.

ONE ALLISON WAY VP, Quality and Reliability

INDIANAPOLIS, IN 46222

Signatures

/s/ Eric C. Scroggins, attorney-in-fact

12/21/2012

**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) Each restricted stock unit ("RSU") represents a contingent right to receive one share of Allison Transmission Holdings, Inc. common stock.
- (2) The RSUs vest in two installments as follows: 3,750 on June 30, 2013 and 3,750 on December 15, 2014.

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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