

FORM 4

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

OMB APPROVAL
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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 *		2. Issuer Name and Ticker or Trading Symbol		5. Relationship of Reporting Person(s) to Issuer (Check all applicable)	
Harper Trudy A		InfraREIT, Inc. [HIFR]		<input checked="" type="checkbox"/> Director _____ 10% Owner	
(Last) (First) (Middle)		3. Date of Earliest Transaction (MM/DD/YYYY)		<input type="checkbox"/> Officer (give title below) _____ Other (specify below)	
1900 NORTH AKARD STREET		1/3/2018			
(Street)		4. If Amendment, Date Original Filed (MM/DD/YYYY)		6. Individual or Joint/Group Filing (Check Applicable Line)	
DALLAS, TX 75201				<input checked="" type="checkbox"/> Form filed by One Reporting Person	
(City) (State) (Zip)				<input type="checkbox"/> 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. Trans. Date	2A. Deemed Execution Date, if any	3. Trans. 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, \$0.01 par value per share								3411 (1)	D	

Table II - Derivative Securities 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. Trans. Date	3A. Deemed Execution Date, if any	4. Trans. 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		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 of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
LTIP Units (2)	(2)	1/3/2018		A		4136 (3)		(2)	(2)	common stock	4136 (3)	(3)	16901 (1)	D	

Explanation of Responses:

- In the aggregate, Ms. Harper beneficially owns 20,312 shares of common stock, consisting of the 3,411 shares of common stock shown in Table I and the 16,901 shares underlying the LTIP Units shown in Table II.
- Represents LTIP Units of InfraREIT Partners, LP, 12,765 of which are fully vested and 4,136 of which are scheduled to vest on January 3, 2019. Pursuant to the Third Amended and Restated Agreement of Limited Partnership of InfraREIT Partners, LP, Ms. Harper may elect to convert any vested LTIP Units on a one-for-one basis to common units of InfraREIT Partners, LP in accordance with their terms. Common units are redeemable for cash or, at InfraREIT, Inc.'s election, shares of InfraREIT, Inc.'s common stock on a one-for-one basis. The rights to convert vested LTIP Units into common units and redeem common units do not have expiration dates.
- LTIP Units are awarded under the InfraREIT, Inc. 2015 Equity Incentive Plan to non-employee directors who elected to receive LTIP Units in lieu of common stock.

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Harper Trudy A 1900 NORTH AKARD STREET DALLAS, TX 75201	X			

Signatures

/s/ Gregory S. Imhoff, as Attorney-In-Fact for Trudy A. Harper

1/3/2018

**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.

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