

INITIAL STATEMENT OF 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

(Print or Type Responses)

1. Name and Address of Reporting Person* AWM Investment Company, Inc. (Last) (First) (Middle) 527 MADISON AVENUE, SUITE 2600 (Street) NEW YORK, NY 10022 (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) 04/17/2019	3. Issuer Name and Ticker or Trading Symbol Ideal Power Inc. [IPWR]	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below)	5. If Amendment, Date Original Filed(Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4) Common Stock	2. Amount of Securities Beneficially Owned (Instr. 4) 2,431,829 (1) (2)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) I (1) (2)	4. Nature of Indirect Beneficial Ownership (Instr. 5) By Limited Partnerships (1) (2)
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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1473 (7-02)

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

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
Warrants	09/04/2017	03/03/2020	Common Stock	1,183,430 (3) (4) (5)	\$ 2.41	I (3) (4) (5)	By Limited Partnerships (3) (4) (5)
Preferred Stock	(6)	(6)	Common Stock	810,000 (6) (7) (8)	\$ 0	I (5) (7) (8)	By Limited Partnerships (5) (7) (8)

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
AWM Investment Company, Inc. 527 MADISON AVENUE SUITE 2600 NEW YORK, NY 10022		X		

Signatures

Adam Stettner	04/26/2019
<small>**Signature of Reporting Person</small>	<small>Date</small>

Explanation of Responses:

* If the form is filed by more than one reporting person, see Instruction 5(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).

AWM Investment Company, Inc., a Delaware Corporation (AWM), is the investment adviser to Special Situations Fund III QP, L.P. (QP), Special Situations Cayman Fund, L.P. (CAYMAN), Special Situations Technology Fund, L.P. (Tech) & Special Situations Technology Fund II, L.P. (TECH II) & together with QP, CAYMAN, & Tech, the Funds). As the investment adviser to the Funds, AWM holds sole voting & investment power over 1,227,908 shares of Common Stock of the Issuer (the Shares) held by QP, 357,119 Shares held by CAYMAN, 126,184 Shares held by Tech & 720,618 Shares held by TECH II.

- Austin W. Marx (Marxe), David M. Greenhouse (Greenhouse) & Adam C. Stettner (Stettner) are the controlling principals of AWM. The reporting person disclaims
- (2) beneficial ownership of the Shares, except to the extent of its pecuniary interest therein. This report shall not be deemed an admission that the reporting person is the beneficial owner of the securities reported herein for purposes of Section 16 of the Securities Exchange Act of 1934, as amended, or for any other purpose.
- AWM Investment Company, Inc., a Delaware Corporation (AWM), is the investment adviser to Special Situations Fund III QP, L.P. (QP), Special Situations Cayman Fund, L.P. (CAYMAN), Special Situations Technology Fund, L.P. (TECH) and Special Situations Technology Fund II, L.P. (TECH II and together with QP, CAYMAN and TECH, the Funds). As the investment adviser to the Funds, AWM holds sole voting and investment power over 595,202 Warrants held by QP, 173,020 Warrants held by CAY, 61,878 Warrants held by TECH and 353,330 Warrants held by TECH II.
- (3)
- Austin W. Marx (Marxe), David M. Greenhouse (Greenhouse) and Adam C. Stettner (Stettner) are the controlling principals of AWM. The reporting person disclaims
- (4) beneficial ownership of the Warrants, except to the extent of its pecuniary interest therein. This report shall not be deemed an admission that the reporting person is the beneficial owner of the securities reported herein for purposes of Section 16 of the Securities Exchange Act of 1934, as amended, or for any other purpose.
- (5) The Preferred Shares and Warrants may only be exercised to the extent that the total number of Common Shares then beneficially owned does not exceed 9.99% of the outstanding shares.
- (6) Preferred Shares are immediately convertible and do not expire.
- AWM Investment Company, Inc., a Delaware Corporation (AWM), is the investment adviser to Special Situations Fund III QP, L.P. (QP), Special Situations Cayman Fund, L.P. (CAYMAN), Special Situations Technology Fund, L.P. (TECH) and Special Situations Technology Fund II, L.P. (TECH II and together with QP, CAYMAN and TECH, the Funds). As the investment adviser to the Funds, AWM holds sole voting and investment power over 407,390 Preferred Shares held by QP, 118,420 Preferred Shares held by CAY, 42,350 Preferred Shares held by TECH and 241,840 Preferred Shares held by TECH II.
- (7)
- Austin W. Marx (Marxe), David M. Greenhouse (Greenhouse) and Adam C. Stettner (Stettner) are the controlling principals of AWM. The reporting person disclaims
- (8) beneficial ownership of the Preferred Shares, except to the extent of its pecuniary interest therein. This report shall not be deemed an admission that the reporting person is the beneficial owner of the securities reported herein for purposes of Section 16 of the Securities Exchange Act of 1934, as amended, or for any other purpose

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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