# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

# **SCHEDULE 13G**

**Under the Securities Exchange Act of 1934** 

# **American Superconductor Corporation**

(Name of Issuer)

**Common Stock** 

(Title of Class of Securities)

# 030111207

(CUSIP Number)

## May 5, 2017

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

x Rule 13d-1(b)

x Rule 13d-1(c)

o Rule 13d-1(d)

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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 control number.

CUSIP	No. 03011120	7		13G		Page 2 of 13 Pages		
1.	NAMES OF REP I.R.S. IDENTIFI Ardsley Ad	CATION N	O. OF ABOVE PERSONS	(ENTITIES ONLY)				
2.	CHECK THE AP	(a) (a)         (b) o						
3.	SEC USE ONLY							
4.			OF ORGANIZATION States of America					
	MBER OF SHARES	5.	SOLE VOTING POWER	3				
	BENEFICIALLY         6.         SHARED VOTING POWER		VER		1,340,00			
RE	EACH 7. SOLE DISPOSITIVE POWER							
PER	PERSON WITH:     8.     SHARED DISPOSITIVE POWER     1,34					1,340,00		
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,340							
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)							
11.	PERCENT OF C	LASS REP	RESENTED BY AMOUNT	in row (9)		7.49		
12.	TYPE OF REPO	RTING PE	rson (See Instructio	NS)		PN, IA		

	100		
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12.	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) IN					
11.	PERCENT OF C	LASS REF	Presented by Amount in Row (9)	7.4%		
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)					
9.	AGGREGATE A	MOUNT E	SENEFICIALLY OWNED BY EACH REPORTING PERSON	1,340,000		
PER	SON WITH:	8.	SHARED DISPOSITIVE POWER	1,340,000		
RI	EACH     7.     SOLE DISPOSITIVE POWER		0			
	BENEFICIALLY OWNED BY     6.     SHARED VOTING POWER		1,340,000			
	JMBER OF SHARES	5.	SOLE VOTING POWER	0		
4.	CITIZENSHIP OF UNITED STAT		OF ORGANIZATION MERICA			
3.	SEC USE ONLY					
2.	CHECK THE AP	CHECK THE APPROPRIATE BOX IF A GROUP*       (a) (b) (b) (c)				
	Philip J. He	MPLEM	AN			
1.	NAMES OF REP		PERSONS NO. OF ABOVE PERSONS (ENTITIES ONLY)			

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1.	NAMES OF REPO I.R.S. IDENTIFIC ARDSLEY PAR	CATION N	IO. OF ABOVE PERSONS (ENTITIES ONLY)			
2.	CHECK THE AP	PROPRIAT	TE BOX IF A GROUP*	(a) ⊠ (b) o		
3.	SEC USE ONLY					
4.	CITIZENSHIP OR PLACE OF ORGANIZATION New York, United States of America					
	MBER OF SHARES	5.	SOLE VOTING POWER	0		
	BENEFICIALLY OWNED BY 6. SHARED VOTING POWE		SHARED VOTING POWER	1,340,000		
	EACH 7. SOLE DISP		SOLE DISPOSITIVE POWER	0		
PERS	PERSON WITH:     8.     SHARED DISPOSITIVE POWER     1,3					
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,340,000					
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)					
11.	PERCENT OF CL	ASS REP	resented by amount in row (9)	7.4%		
12.	TYPE OF REPOR	TING PE	rson (See Instructions)	PN		

CUSIP	CUSIP No. 030111207         13G         Page 5 of 13 Pages							
1.		CATION N	PERSONS NO. OF ABOVE PERSONS FUND II, L.P.	(ENTITIES ONLY)				
2.	CHECK THE AP	(a) 🛛         (b) o						
3.	SEC USE ONLY							
4.			OF ORGANIZATION STATES OF AMERICA					
	MBER OF SHARES	5.	SOLE VOTING POWER	ξ				0
	BENEFICIALLY     6.     SHARED VOTING POWER		WER		234,1		234,100	
	EACH     7.     SOLE DISPOSITIVE POWER				0			
PERS	PERSON WITH:     8.     SHARED DISPOSITIVE POWER     234,1					234,100		
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 234,100					234,100		
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) 0					0		
11.	PERCENT OF CI	ASS REP	RESENTED BY AMOUNT	in row <b>(9)</b>				1.3%
12.	TYPE OF REPOR	RTING PE	rson (See Instructio	ns)				PN

CUSIP	CUSIP No. 030111207         13G         Page 6 of 13 Pages							
1.		CATION 1	persons no. of above persons Institutional Fund,					
2.	CHECK THE APP	PROPRIA	TE BOX IF A GROUP*					(a) ⊠ (b) o
3.	SEC USE ONLY							
4.			OF ORGANIZATION States of America					
	MBER OF SHARES	5.	SOLE VOTING POWER	R				0
	BENEFICIALLY     6.     SHARED VOTING POWER						294,700	
RE	EACH 7. SOLE DISPOSITIVE POWER						0	
PERS	PERSON WITH:     8.     SHARED DISPOSITIVE POWER					294,700		
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					294,700		
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)					0		
11.	PERCENT OF CL	ASS REF	PRESENTED BY AMOUNT	in row <b>(9)</b>				1.6%
12.	TYPE OF REPOR	TING PE	rson (See Instructio	ns)				PN

CUSIP No. 030111207         13G         Page 7 of 13 Pages					Page 7 of 13 Pages		
1.	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) Ardsley Partners Advanced Healthcare Fund, L.P.						
2.	CHECK THE APPROPRIATE BOX IF A GROUP*     (a) (b) o						
3.	SEC USE ONLY						
4.	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware, United States of America						
	MBER OF HARES	5.	SOLE VOTING POWER	2		0	
	BENEFICIALLY     6.     SHARED VOTING POWER			171,200			
EACH     7.     SOLE DISPOSITIVE POWER				0			
PERS	PERSON WITH:     8.     SHARED DISPOSITIVE POWER     172					171,200	
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 171,					171,200	
10.	10.       CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)       0					0	
11.	PERCENT OF CL	ASS REP	RESENTED BY AMOUNT	in row <b>(9)</b>		0.9%	
12.	TYPE OF REPOR	TING PE	rson (See Instructio	NS)		PN	

CUSIP	No. 030111202	7		13G	Pa	age 8 of 13 Pages	
1.		CATION N	PERSONS 10. OF ABOVE PERSONS Renewable Energy				
2.	CHECK THE AP	CHECK THE APPROPRIATE BOX IF A GROUP*       (a) 🛛         (b) o       (b) o					
3.	SEC USE ONLY						
4.			OF ORGANIZATION STATES OF AMERICA				
	MBER OF HARES	5.	SOLE VOTING POWER	λ		0	
	BENEFICIALLY OWNED BY 6. SHARED VOTING PO		SHARED VOTING POW	VER		640,000	
	EACH     7.     SOLE DISPOSITIVE POWER				0		
PERS	PERSON WITH:     8.     SHARED DISPOSITIVE POWER     64					640,000	
9.	AGGREGATE AN	10UNT B	ENEFICIALLY OWNED BY	Y EACH REPORTING PERSON		640,000	
10.	CHECK BOX IF	THE AGO	GREGATE AMOUNT IN RC	w (9) excludes certain shares (See Instructions)	·	0	
11.	PERCENT OF CL	ASS REP	RESENTED BY AMOUNT	in row (9)		3.5%	
12.	TYPE OF REPOR	TING PE	rson (See Instructio	NS)		PN	

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Item 1. (a) Name of Issuer: (b) Address of Issuer's Principal Executive	American Superconductor Corporation         e Offices:       64 Jackson Road         Devens, Massachuset	ts 01434	
Item 2. (a) Name of Person Filing:	This Schedule 13G (the "Schedule") is being file defined below) of American Superconductor Cor owned by Ardsley Advisory Partners (the "Advi Partner"), Phillip J. Hempleman ("Hempleman" II"), Ardsley Partners Institutional Fund, L.P. (t Advanced Healthcare Fund, L.P. (the "Healthcar Energy Fund (the "Renewable Energy Fund") (t below.	rporation (the "Issuer") which are beneficially sor"), Ardsley Partners I (the "General '), Ardsley Partners Fund II, L.P. (the "Fund he "Institutional Fund"), Ardsley Partners re Fund") and Ardsley Partners Renewable	
<ul> <li>(b) Address of Principal Business Office of</li> <li>(c) Citizenship:</li> <li>(d) Title of Class of Securities:</li> <li>(e) CUSIP Number:</li> </ul>	262 Harbor Drive Stamford, CT 06902 The Fund II, the Institutional Fund, the Advanced Healthcare Fund, and the Renewable Energy Fund are Delaware limited partnerships. The Advisor and the General Partner are New York general partnerships. Hempleman is a United States Citizen. Common Stock 030111207		
<ul> <li>(a) o Broker or dealer registered</li> <li>(b) o Bank as defined in section</li> <li>(c) o Insurance company as de</li> <li>(d) o Investment company regision</li> <li>(e) x An investment adviser in</li> <li>(f) o An employee benefit plant</li> <li>(g) o A parent holding companies</li> <li>(h) o A savings associations as</li> <li>(i) O A church plan that is excert</li> <li>Act of 1940 (15 U.S.C. 8</li> </ul>	t to §§240.13d-1(b) or 240.13d-2(b) or (c), check whe ed under section 15 of the Act (15 U.S.C. 78o). on 3(a)(6) of the Act (15 U.S.C. 78c). fined in section 3(a)(19) of the Act (15 U.S.C. 78c). istered under section 8 of the Investment Company Act accordance with §240.13d-1(b)(1)(ii)(E); n or endowment fund in accordance with §240.13d-1(b) ay or control person in accordance with § 240.13d-1(b) of defined in Section 3(b) of the Federal Deposit Insuran cluded from the definition of an investment company i 0a-3); th §240.13d-1(b)(1)(ii)(J).	r of 1940 (15 U.S.C 80a-8). )(1)(ii)(F); (1)(ii)(G); ce Act (12 U.S.C. 1813);	

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#### Item 4. Ownership.

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

The Information required by Items 4(a) - (c) is set forth in Rows 5-11 of the cover page for each Reporting Person hereto and is incorporated by reference for each Reporting Person. The percentage ownership of the Reporting Persons is based on the sum of 4,000,000 shares of Common Stock being offering in connection with a public offering announced by the Issuer in a press release dated May 5, 2017 and 14,219,985 outstanding shares of Common Stock of the Issuer, as disclosed on the Issuer's 10-Q filed with the SEC on February 6, 2017.

## Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following: o.

# Item 6. Ownership of More Than Five Percent on Behalf of Another Person.

Not applicable.

Item 7. Identification and Classification of the Subsidiary which Acquired the Security Being Reported on by the Parent Holding Company or Control Person.

Not applicable.

Item 8. Identification and Classification of Members of the Group.

See Exhibit 2

Item 9. Notice of Dissolution of Group.

Not applicable.

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#### Item 10. Certification.

(e)

(f)

The following certification shall be included if the statement is filed pursuant to §240.13d-1(b) with respect to Ardsley Advisory Partners:

(a) By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect. x

The following certification shall be included if the statement is filed pursuant to §240.13d-1(c) with respect to Ardsley Partners I:

(b) By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect. x

The following certification shall be included if the statement is filed pursuant to §240.13d-1(c) with respect to Philip J Hempleman :

(c) By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect. x

The following certification shall be included if the statement is filed pursuant to §240.13d-1(c) with respect to Ardsley Partners Fund II, L.P.:

(d) By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect. x

The following certification shall be included if the statement is filed pursuant to §240.13d-1(c) with respect to Ardsley Partners Institutional Fund, L.P.:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect. x

The following certification shall be included if the statement is filed pursuant to §240.13d-1(c) with respect to Ardsley Partners Advanced Healthcare Fund, L.P. :

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect. x

The following certification shall be included if the statement is filed pursuant to §240.13d-1(c) with respect to Ardsley Partners Renewable Energy Fund, L.P. :

(g) By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect. x

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#### SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

<u>May 8, 2017</u> Date

ARDSLEY ADVISORY PARTNERS

/s/ Steve Napoli

Signature

Steve Napoli/Partner

Name/Title

<u>May 8, 2017</u> Date

ARDSLEY PARTNERS I

/s/ Steve Napoli Signature

Steve Napoli/General Partner

<u>May 8, 2017</u> Date

#### PHILIP J. HEMPLEMAN

/s/ Steve Napoli\*

Signature

Steve Napoli/Attorney-in Fact for Philip J. Hempleman Name/Title

<u>May 8, 2017</u> Date

ARDSLEY PARTNERS FUND II, L.P. By: Ardsley Partners I, General Partner

/s/ Steve Napoli

Signature

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	Steve Napoli/General Partner		
	<u>May 8, 2017</u> Date		
		ARDSLEY PARTNERS INSTITUTIONAL FUND, L.P. By: Ardsley Partners I, General Partner	
	/s/ Steve Napoli		
	Signature	-	
		Steve Napoli/General Partner	
	<u>May 8, 2017</u> Date		
		ARDSLEY PARTNERS ADVANCED HEALTHCARE FUND, L.P. By: Ardsley Partners I, General Partner	
	/s/ Steve Napoli Signature		
	-	Steve Napoli/General Partner	
	<u>May 8, 2017</u> Date		
		ARDSLEY PARTNERS RENEWABLE ENERGY FUND, L.P. By: Ardsley Partners I, General Partner	
	/s/ Steve Napoli	/s/ Steve Napoli Signature	
	-	Steve Napoli/General Partner	
* Executed by Steve Napoli as Attorney-in-Fact for Philip J. Hempleman. The Power of Attorney for Mr. Hempleman is attached as Exhibit 2 to s Statement on Schedule 13G/A with respect to the Common Stock of Vaxgen, Inc., filed on February 15, 2006, and is incorporated herein by reference.			

The original statement shall be signed by each person on whose behalf the statement is filed or his authorized representative. If the statement is signed on behalf of a person by his authorized representative other than an executive officer or general partner of the filing person, evidence of the representative's authority to sign on behalf of such person shall be filed with the statement, provided, however, that a power of attorney for this purpose which is already on file with the Commission may be incorporated by reference. The name and any title of each person who signs the statement shall be typed or printed beneath his signature.

*NOTE:* Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. *See* §240.13d-7 for other parties for whom copies are to be sent.

Attention: Intentional misstatements or omissions of fact constitute Federal criminal violations (See 18 U.S.C. 1001)

#### JOINT FILING AGREEMENT

In accordance with Rule 13d-1(f) under the Securities Exchange Act of 1934, as amended, the persons named below agree to the joint filing on behalf of each of them of this Schedule 13G (including amendments thereto) with respect to the Common Stock of American Superconductor Corporation and further agree that this Joint Filing Agreement be included as an Exhibit to such joint filing. In evidence thereof, the undersigned, hereby execute this Agreement this May 8, 2017.

<u>May 8, 2017</u> Date

# ARDSLEY ADVISORY PARTNERS

/s/ Steve Napoli

Signature

Steve Napoli/Partner

Name/Title

<u>May 8, 2017</u> Date

ARDSLEY PARTNERS I

/s/ Steve Napoli Signature

Steve Napoli/General Partner

<u>May 8, 2017</u> Date

#### PHILIP J. HEMPLEMAN

/s/ Steve Napoli\*

Signature

Steve Napoli/Attorney-in Fact for Philip J. Hempleman Name/Title

<u>May 8, 2017</u> Date

ARDSLEY PARTNERS FUND II, L.P. By: Ardsley Partners I, General Partner

/s/ Steve Napoli

Signature

Steve Napoli/General Partner

<u>May 8, 2017</u> Date

ARDSLEY PARTNERS INSTITUTIONAL FUND, L.P. By: Ardsley Partners I, General Partner

/s/ Steve Napoli

Signature

Steve Napoli/General Partner

<u>May 8, 2017</u> Date

ARDSLEY PARTNERS ADVANCED HEALTHCARE FUND, L.P. By: Ardsley Partners I, General Partner

/s/ Steve Napoli Signature

Steve Napoli/General Partner

<u>May 8, 2017</u> Date

ARDSLEY PARTNERS RENEWABLE ENERGY FUND, L.P. By: Ardsley Partners I, General Partner

/s/ Steve Napoli

Signature

Steve Napoli/General Partner

\* Executed by Steve Napoli as Attorney-in-Fact for Philip J. Hempleman. The Power of Attorney for Mr. Hempleman is attached as Exhibit 2 to the Statement on Schedule 13G/A with respect to the Common Stock of Vaxgen, Inc., filed on February 15, 2006, and is incorporated herein by reference.

EXHIBIT 2

# IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP

Ardsley Advisory Partners Ardsley Partners I Philip J. Hempleman Ardsley Partners Fund II, L.P. Ardsley Partners Institutional Fund, L.P. Ardsley Partners Advanced Healthcare Fund, L.P. Ardsley Partners Renewable Energy Fund, L.P.