

Extended to May 15, 2020

Return of Organization Exempt From Income Tax

OMB No. 1545-0047

Form **990**

Under section 501(c), 527, or 4947(a)(1) of the Internal Revenue Code (except private foundations)

2018

Department of the Treasury
Internal Revenue Service

▶ Do not enter social security numbers on this form as it may be made public.
▶ Go to www.irs.gov/Form990 for instructions and the latest information.

Open to Public Inspection

A For the 2018 calendar year, or tax year beginning **JUL 1, 2018** and ending **JUN 30, 2019**

B Check if applicable: <input type="checkbox"/> Address change <input type="checkbox"/> Name change <input type="checkbox"/> Initial return <input type="checkbox"/> Final return/terminated <input type="checkbox"/> Amended return <input type="checkbox"/> Application pending	C Name of organization Orthopaedic Research and Education Foundation Doing business as OREF Number and street (or P.O. box if mail is not delivered to street address) Room/suite 9400 W. Higgins Road 215 City or town, state or province, country, and ZIP or foreign postal code Rosemont, IL 60018 F Name and address of principal officer: Richard Kyle, MD same as C above	D Employer identification number 36-6009467 E Telephone number 847-698-9980 G Gross receipts \$ 9,411,406. H(a) Is this a group return for subordinates? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No H(b) Are all subordinates included? <input type="checkbox"/> Yes <input type="checkbox"/> No If "No," attach a list. (see instructions) H(c) Group exemption number ▶
I Tax-exempt status: <input checked="" type="checkbox"/> 501(c)(3) <input type="checkbox"/> 501(c) () ◀ (insert no.) <input type="checkbox"/> 4947(a)(1) or <input type="checkbox"/> 527		
J Website: ▶ www.oref.org		
K Form of organization: <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Trust <input type="checkbox"/> Association <input type="checkbox"/> Other ▶		
L Year of formation: 1955		M State of legal domicile: IL

Part I Summary

	1	Briefly describe the organization's mission or most significant activities: Improving lives by supporting excellence in orthopaedic research			
	2	Check this box <input type="checkbox"/> if the organization discontinued its operations or disposed of more than 25% of its net assets.			
Activities & Governance	3	Number of voting members of the governing body (Part VI, line 1a)	3	22	
	4	Number of independent voting members of the governing body (Part VI, line 1b)	4	22	
	5	Total number of individuals employed in calendar year 2018 (Part V, line 2a)	5	13	
	6	Total number of volunteers (estimate if necessary)	6	200	
	7a	Total unrelated business revenue from Part VIII, column (C), line 12	7a	0.	
	7b	Net unrelated business taxable income from Form 990-T, line 38	7b	0.	
	Revenue	8	Contributions and grants (Part VIII, line 1h)	Prior Year 5,448,193.	Current Year 3,198,011.
9		Program service revenue (Part VIII, line 2g)	0.	0.	
10		Investment income (Part VIII, column (A), lines 3, 4, and 7d)	639,533.	474,071.	
11		Other revenue (Part VIII, column (A), lines 5, 6d, 8c, 9c, 10c, and 11e)	0.	0.	
12		Total revenue - add lines 8 through 11 (must equal Part VIII, column (A), line 12)	6,087,726.	3,672,082.	
Expenses		13	Grants and similar amounts paid (Part IX, column (A), lines 1-3)	2,534,717.	2,231,583.
		14	Benefits paid to or for members (Part IX, column (A), line 4)	0.	0.
	15	Salaries, other compensation, employee benefits (Part IX, column (A), lines 5-10)	1,575,505.	1,627,891.	
	16a	Professional fundraising fees (Part IX, column (A), line 11e)	0.	0.	
	b	Total fundraising expenses (Part IX, column (D), line 25) ▶ 887,406.			
	17	Other expenses (Part IX, column (A), lines 11a-11d, 11f-24e)	1,077,279.	1,087,127.	
	18	Total expenses. Add lines 13-17 (must equal Part IX, column (A), line 25)	5,187,501.	4,946,601.	
	19	Revenue less expenses. Subtract line 18 from line 12	900,225.	-1,274,519.	
Net Assets or Fund Balances	20	Total assets (Part X, line 16)	Beginning of Current Year 25,537,755.	End of Year 23,718,387.	
	21	Total liabilities (Part X, line 26)	4,034,676.	3,974,334.	
	22	Net assets or fund balances. Subtract line 21 from line 20	21,503,079.	19,744,053.	

Part II Signature Block

Under penalties of perjury, I declare that I have examined this return, including accompanying schedules and statements, and to the best of my knowledge and belief, it is true, correct, and complete. Declaration of preparer (other than officer) is based on all information of which preparer has any knowledge.

Sign Here	Signature of officer Joshua Jacobs, MD, Treasurer Type or print name and title	Date			
Paid Preparer Use Only	Print/Type preparer's name Paul Betlinski	Preparer's signature Paul Betlinski	Date 03/30/20	Check if self-employed <input type="checkbox"/>	PTIN P01960501
	Firm's name ▶ Desmond & Ahern, Ltd	Firm's EIN ▶ 36-3321958			
	Firm's address ▶ 10827 S. Western Avenue Chicago, IL 60643	Phone no. 773-779-4720			

May the IRS discuss this return with the preparer shown above? (see instructions) Yes No

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Part III Statement of Program Service Accomplishments

Check if Schedule O contains a response or note to any line in this Part III

1 Briefly describe the organization's mission: The Orthopaedic Research and Education Foundation (OREF) mission is improving lives by supporting excellence in orthopaedic research. OREF's vision is that it will be the leader in supporting orthopaedic research to improve function, eliminate pain and restore mobility.

2 Did the organization undertake any significant program services during the year which were not listed on the prior Form 990 or 990-EZ? Yes No

3 Did the organization cease conducting, or make significant changes in how it conducts, any program services? Yes No

4 Describe the organization's program service accomplishments for each of its three largest program services, as measured by expenses. Section 501(c)(3) and 501(c)(4) organizations are required to report the amount of grants and allocations to others, the total expenses, and revenue, if any, for each program service reported.

4a (Code:) (Expenses \$ 3,087,365. including grants of \$ 2,231,583.) (Revenue \$) Grant program: The purpose of OREF is to support research into the causes and treatment of musculoskeletal diseases and injuries. OREF's niche is supporting surgeon-researchers and PHD-researchers in basic science/translation, clinical, and health services research.

4b (Code:) (Expenses \$ including grants of \$) (Revenue \$) OREF's education program offers new orthopaedic medical researchers the opportunity to develop their research interests and skills. Through educational programming, OREF supports emerging talent to help them successfully pursue research careers.

4c (Code:) (Expenses \$ including grants of \$) (Revenue \$)

4d Other program services (Describe in Schedule O.) (Expenses \$ including grants of \$) (Revenue \$)

4e Total program service expenses 3,087,365.

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Part IV Checklist of Required Schedules

		Yes	No
1 Is the organization described in section 501(c)(3) or 4947(a)(1) (other than a private foundation)? <i>If "Yes," complete Schedule A</i>	1	X	
2 Is the organization required to complete <i>Schedule B, Schedule of Contributors</i> ?	2	X	
3 Did the organization engage in direct or indirect political campaign activities on behalf of or in opposition to candidates for public office? <i>If "Yes," complete Schedule C, Part I</i>	3		X
4 Section 501(c)(3) organizations. Did the organization engage in lobbying activities, or have a section 501(h) election in effect during the tax year? <i>If "Yes," complete Schedule C, Part II</i>	4		X
5 Is the organization a section 501(c)(4), 501(c)(5), or 501(c)(6) organization that receives membership dues, assessments, or similar amounts as defined in Revenue Procedure 98-19? <i>If "Yes," complete Schedule C, Part III</i>	5		X
6 Did the organization maintain any donor advised funds or any similar funds or accounts for which donors have the right to provide advice on the distribution or investment of amounts in such funds or accounts? <i>If "Yes," complete Schedule D, Part I</i>	6		X
7 Did the organization receive or hold a conservation easement, including easements to preserve open space, the environment, historic land areas, or historic structures? <i>If "Yes," complete Schedule D, Part II</i>	7		X
8 Did the organization maintain collections of works of art, historical treasures, or other similar assets? <i>If "Yes," complete Schedule D, Part III</i>	8		X
9 Did the organization report an amount in Part X, line 21, for escrow or custodial account liability, serve as a custodian for amounts not listed in Part X; or provide credit counseling, debt management, credit repair, or debt negotiation services? <i>If "Yes," complete Schedule D, Part IV</i>	9		X
10 Did the organization, directly or through a related organization, hold assets in temporarily restricted endowments, permanent endowments, or quasi-endowments? <i>If "Yes," complete Schedule D, Part V</i>	10	X	
11 If the organization's answer to any of the following questions is "Yes," then complete Schedule D, Parts VI, VII, VIII, IX, or X as applicable.			
a Did the organization report an amount for land, buildings, and equipment in Part X, line 10? <i>If "Yes," complete Schedule D, Part VI</i>	11a	X	
b Did the organization report an amount for investments - other securities in Part X, line 12 that is 5% or more of its total assets reported in Part X, line 16? <i>If "Yes," complete Schedule D, Part VII</i>	11b		X
c Did the organization report an amount for investments - program related in Part X, line 13 that is 5% or more of its total assets reported in Part X, line 16? <i>If "Yes," complete Schedule D, Part VIII</i>	11c		X
d Did the organization report an amount for other assets in Part X, line 15 that is 5% or more of its total assets reported in Part X, line 16? <i>If "Yes," complete Schedule D, Part IX</i>	11d	X	
e Did the organization report an amount for other liabilities in Part X, line 25? <i>If "Yes," complete Schedule D, Part X</i>	11e	X	
f Did the organization's separate or consolidated financial statements for the tax year include a footnote that addresses the organization's liability for uncertain tax positions under FIN 48 (ASC 740)? <i>If "Yes," complete Schedule D, Part X</i>	11f	X	
12a Did the organization obtain separate, independent audited financial statements for the tax year? <i>If "Yes," complete Schedule D, Parts XI and XII</i>	12a	X	
b Was the organization included in consolidated, independent audited financial statements for the tax year? <i>If "Yes," and if the organization answered "No" to line 12a, then completing Schedule D, Parts XI and XII is optional</i>	12b		X
13 Is the organization a school described in section 170(b)(1)(A)(ii)? <i>If "Yes," complete Schedule E</i>	13		X
14a Did the organization maintain an office, employees, or agents outside of the United States?	14a		X
b Did the organization have aggregate revenues or expenses of more than \$10,000 from grantmaking, fundraising, business, investment, and program service activities outside the United States, or aggregate foreign investments valued at \$100,000 or more? <i>If "Yes," complete Schedule F, Parts I and IV</i>	14b		X
15 Did the organization report on Part IX, column (A), line 3, more than \$5,000 of grants or other assistance to or for any foreign organization? <i>If "Yes," complete Schedule F, Parts II and IV</i>	15		X
16 Did the organization report on Part IX, column (A), line 3, more than \$5,000 of aggregate grants or other assistance to or for foreign individuals? <i>If "Yes," complete Schedule F, Parts III and IV</i>	16		X
17 Did the organization report a total of more than \$15,000 of expenses for professional fundraising services on Part IX, column (A), lines 6 and 11e? <i>If "Yes," complete Schedule G, Part I</i>	17		X
18 Did the organization report more than \$15,000 total of fundraising event gross income and contributions on Part VIII, lines 1c and 8a? <i>If "Yes," complete Schedule G, Part II</i>	18		X
19 Did the organization report more than \$15,000 of gross income from gaming activities on Part VIII, line 9a? <i>If "Yes," complete Schedule G, Part III</i>	19		X
20a Did the organization operate one or more hospital facilities? <i>If "Yes," complete Schedule H</i>	20a		X
b If "Yes" to line 20a, did the organization attach a copy of its audited financial statements to this return?	20b		
21 Did the organization report more than \$5,000 of grants or other assistance to any domestic organization or domestic government on Part IX, column (A), line 1? <i>If "Yes," complete Schedule I, Parts I and II</i>	21	X	

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Part IV Checklist of Required Schedules *(continued)*

	Yes	No
22 Did the organization report more than \$5,000 of grants or other assistance to or for domestic individuals on Part IX, column (A), line 2? <i>If "Yes," complete Schedule I, Parts I and III</i>	22	X
23 Did the organization answer "Yes" to Part VII, Section A, line 3, 4, or 5 about compensation of the organization's current and former officers, directors, trustees, key employees, and highest compensated employees? <i>If "Yes," complete Schedule J</i>	23	X
24a Did the organization have a tax-exempt bond issue with an outstanding principal amount of more than \$100,000 as of the last day of the year, that was issued after December 31, 2002? <i>If "Yes," answer lines 24b through 24d and complete Schedule K. If "No," go to line 25a</i>	24a	X
b Did the organization invest any proceeds of tax-exempt bonds beyond a temporary period exception?	24b	
c Did the organization maintain an escrow account other than a refunding escrow at any time during the year to defease any tax-exempt bonds?	24c	
d Did the organization act as an "on behalf of" issuer for bonds outstanding at any time during the year?	24d	
25a Section 501(c)(3), 501(c)(4), and 501(c)(29) organizations. Did the organization engage in an excess benefit transaction with a disqualified person during the year? <i>If "Yes," complete Schedule L, Part I</i>	25a	X
b Is the organization aware that it engaged in an excess benefit transaction with a disqualified person in a prior year, and that the transaction has not been reported on any of the organization's prior Forms 990 or 990-EZ? <i>If "Yes," complete Schedule L, Part I</i>	25b	X
26 Did the organization report any amount on Part X, line 5, 6, or 22 for receivables from or payables to any current or former officers, directors, trustees, key employees, highest compensated employees, or disqualified persons? <i>If "Yes," complete Schedule L, Part II</i>	26	X
27 Did the organization provide a grant or other assistance to an officer, director, trustee, key employee, substantial contributor or employee thereof, a grant selection committee member, or to a 35% controlled entity or family member of any of these persons? <i>If "Yes," complete Schedule L, Part III</i>	27	X
28 Was the organization a party to a business transaction with one of the following parties (see Schedule L, Part IV instructions for applicable filing thresholds, conditions, and exceptions):		
a A current or former officer, director, trustee, or key employee? <i>If "Yes," complete Schedule L, Part IV</i>	28a	X
b A family member of a current or former officer, director, trustee, or key employee? <i>If "Yes," complete Schedule L, Part IV</i>	28b	X
c An entity of which a current or former officer, director, trustee, or key employee (or a family member thereof) was an officer, director, trustee, or direct or indirect owner? <i>If "Yes," complete Schedule L, Part IV</i>	28c	X
29 Did the organization receive more than \$25,000 in non-cash contributions? <i>If "Yes," complete Schedule M</i>	29	X
30 Did the organization receive contributions of art, historical treasures, or other similar assets, or qualified conservation contributions? <i>If "Yes," complete Schedule M</i>	30	X
31 Did the organization liquidate, terminate, or dissolve and cease operations? <i>If "Yes," complete Schedule N, Part I</i>	31	X
32 Did the organization sell, exchange, dispose of, or transfer more than 25% of its net assets? <i>If "Yes," complete Schedule N, Part II</i>	32	X
33 Did the organization own 100% of an entity disregarded as separate from the organization under Regulations sections 301.7701-2 and 301.7701-3? <i>If "Yes," complete Schedule R, Part I</i>	33	X
34 Was the organization related to any tax-exempt or taxable entity? <i>If "Yes," complete Schedule R, Part II, III, or IV, and Part V, line 1</i>	34	X
35a Did the organization have a controlled entity within the meaning of section 512(b)(13)?	35a	X
b If "Yes" to line 35a, did the organization receive any payment from or engage in any transaction with a controlled entity within the meaning of section 512(b)(13)? <i>If "Yes," complete Schedule R, Part V, line 2</i>	35b	
36 Section 501(c)(3) organizations. Did the organization make any transfers to an exempt non-charitable related organization? <i>If "Yes," complete Schedule R, Part V, line 2</i>	36	X
37 Did the organization conduct more than 5% of its activities through an entity that is not a related organization and that is treated as a partnership for federal income tax purposes? <i>If "Yes," complete Schedule R, Part VI</i>	37	X
38 Did the organization complete Schedule O and provide explanations in Schedule O for Part VI, lines 11b and 19? Note. All Form 990 filers are required to complete Schedule O	38	X

Part V Statements Regarding Other IRS Filings and Tax Compliance

Check if Schedule O contains a response or note to any line in this Part V

	Yes	No
1a Enter the number reported in Box 3 of Form 1096. Enter -0- if not applicable	1a	16
b Enter the number of Forms W-2G included in line 1a. Enter -0- if not applicable	1b	0
c Did the organization comply with backup withholding rules for reportable payments to vendors and reportable gaming (gambling) winnings to prize winners?	1c	X

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Part V Statements Regarding Other IRS Filings and Tax Compliance (continued)

		Yes	No
2a	Enter the number of employees reported on Form W-3, Transmittal of Wage and Tax Statements, filed for the calendar year ending with or within the year covered by this return		
	2a		13
b	If at least one is reported on line 2a, did the organization file all required federal employment tax returns? Note. If the sum of lines 1a and 2a is greater than 250, you may be required to e-file (see instructions)	X	
3a	Did the organization have unrelated business gross income of \$1,000 or more during the year?		X
b	If "Yes," has it filed a Form 990-T for this year? If "No" to line 3b, provide an explanation in Schedule O		
4a	At any time during the calendar year, did the organization have an interest in, or a signature or other authority over, a financial account in a foreign country (such as a bank account, securities account, or other financial account)?		X
b	If "Yes," enter the name of the foreign country: See instructions for filing requirements for FinCEN Form 114, Report of Foreign Bank and Financial Accounts (FBAR).		
5a	Was the organization a party to a prohibited tax shelter transaction at any time during the tax year?		X
b	Did any taxable party notify the organization that it was or is a party to a prohibited tax shelter transaction?		X
c	If "Yes" to line 5a or 5b, did the organization file Form 8886-T?		
6a	Does the organization have annual gross receipts that are normally greater than \$100,000, and did the organization solicit any contributions that were not tax deductible as charitable contributions?		X
b	If "Yes," did the organization include with every solicitation an express statement that such contributions or gifts were not tax deductible?		
7	Organizations that may receive deductible contributions under section 170(c).		
a	Did the organization receive a payment in excess of \$75 made partly as a contribution and partly for goods and services provided to the payor?		X
b	If "Yes," did the organization notify the donor of the value of the goods or services provided?		
c	Did the organization sell, exchange, or otherwise dispose of tangible personal property for which it was required to file Form 8282?		X
d	If "Yes," indicate the number of Forms 8282 filed during the year		
	7d		
e	Did the organization receive any funds, directly or indirectly, to pay premiums on a personal benefit contract?		X
f	Did the organization, during the year, pay premiums, directly or indirectly, on a personal benefit contract?		X
g	If the organization received a contribution of qualified intellectual property, did the organization file Form 8899 as required?		
h	If the organization received a contribution of cars, boats, airplanes, or other vehicles, did the organization file a Form 1098-C?		
8	Sponsoring organizations maintaining donor advised funds. Did a donor advised fund maintained by the sponsoring organization have excess business holdings at any time during the year?		
9	Sponsoring organizations maintaining donor advised funds.		
a	Did the sponsoring organization make any taxable distributions under section 4966?		
b	Did the sponsoring organization make a distribution to a donor, donor advisor, or related person?		
10	Section 501(c)(7) organizations. Enter:		
a	Initiation fees and capital contributions included on Part VIII, line 12	10a	
b	Gross receipts, included on Form 990, Part VIII, line 12, for public use of club facilities	10b	
11	Section 501(c)(12) organizations. Enter:		
a	Gross income from members or shareholders	11a	
b	Gross income from other sources (Do not net amounts due or paid to other sources against amounts due or received from them.)	11b	
12a	Section 4947(a)(1) non-exempt charitable trusts. Is the organization filing Form 990 in lieu of Form 1041?	12a	
b	If "Yes," enter the amount of tax-exempt interest received or accrued during the year	12b	
13	Section 501(c)(29) qualified nonprofit health insurance issuers.		
a	Is the organization licensed to issue qualified health plans in more than one state? Note. See the instructions for additional information the organization must report on Schedule O.	13a	
b	Enter the amount of reserves the organization is required to maintain by the states in which the organization is licensed to issue qualified health plans	13b	
c	Enter the amount of reserves on hand	13c	
14a	Did the organization receive any payments for indoor tanning services during the tax year?		X
b	If "Yes," has it filed a Form 720 to report these payments? If "No," provide an explanation in Schedule O	14b	
15	Is the organization subject to the section 4960 tax on payment(s) of more than \$1,000,000 in remuneration or excess parachute payment(s) during the year? If "Yes," see instructions and file Form 4720, Schedule N.	15	X
16	Is the organization an educational institution subject to the section 4968 excise tax on net investment income? If "Yes," complete Form 4720, Schedule O.	16	X

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Part VI Governance, Management, and Disclosure For each "Yes" response to lines 2 through 7b below, and for a "No" response to line 8a, 8b, or 10b below, describe the circumstances, processes, or changes in Schedule O. See instructions.

Check if Schedule O contains a response or note to any line in this Part VI

Section A. Governing Body and Management

			Yes	No
1a Enter the number of voting members of the governing body at the end of the tax year	1a	22		
If there are material differences in voting rights among members of the governing body, or if the governing body delegated broad authority to an executive committee or similar committee, explain in Schedule O.				
b Enter the number of voting members included in line 1a, above, who are independent	1b	22		
2 Did any officer, director, trustee, or key employee have a family relationship or a business relationship with any other officer, director, trustee, or key employee?	2			X
3 Did the organization delegate control over management duties customarily performed by or under the direct supervision of officers, directors, or trustees, or key employees to a management company or other person?	3			X
4 Did the organization make any significant changes to its governing documents since the prior Form 990 was filed?	4			X
5 Did the organization become aware during the year of a significant diversion of the organization's assets?	5			X
6 Did the organization have members or stockholders?	6			X
7a Did the organization have members, stockholders, or other persons who had the power to elect or appoint one or more members of the governing body?	7a			X
b Are any governance decisions of the organization reserved to (or subject to approval by) members, stockholders, or persons other than the governing body?	7b			X
8 Did the organization contemporaneously document the meetings held or written actions undertaken during the year by the following:				
a The governing body?	8a		X	
b Each committee with authority to act on behalf of the governing body?	8b		X	
9 Is there any officer, director, trustee, or key employee listed in Part VII, Section A, who cannot be reached at the organization's mailing address? If "Yes," provide the names and addresses in Schedule O	9			X

Section B. Policies (This Section B requests information about policies not required by the Internal Revenue Code.)

			Yes	No
10a Did the organization have local chapters, branches, or affiliates?	10a			X
b If "Yes," did the organization have written policies and procedures governing the activities of such chapters, affiliates, and branches to ensure their operations are consistent with the organization's exempt purposes?	10b			
11a Has the organization provided a complete copy of this Form 990 to all members of its governing body before filing the form?	11a		X	
b Describe in Schedule O the process, if any, used by the organization to review this Form 990.				
12a Did the organization have a written conflict of interest policy? If "No," go to line 13	12a		X	
b Were officers, directors, or trustees, and key employees required to disclose annually interests that could give rise to conflicts?	12b		X	
c Did the organization regularly and consistently monitor and enforce compliance with the policy? If "Yes," describe in Schedule O how this was done	12c		X	
13 Did the organization have a written whistleblower policy?	13		X	
14 Did the organization have a written document retention and destruction policy?	14		X	
15 Did the process for determining compensation of the following persons include a review and approval by independent persons, comparability data, and contemporaneous substantiation of the deliberation and decision?				
a The organization's CEO, Executive Director, or top management official	15a		X	
b Other officers or key employees of the organization	15b		X	
If "Yes" to line 15a or 15b, describe the process in Schedule O (see instructions).				
16a Did the organization invest in, contribute assets to, or participate in a joint venture or similar arrangement with a taxable entity during the year?	16a			X
b If "Yes," did the organization follow a written policy or procedure requiring the organization to evaluate its participation in joint venture arrangements under applicable federal tax law, and take steps to safeguard the organization's exempt status with respect to such arrangements?	16b			

Section C. Disclosure

- 17** List the states with which a copy of this Form 990 is required to be filed **▶ AK, AL, AR, AZ, CA, CT, DC, DE, FL, GA, IL, IN**
- 18** Section 6104 requires an organization to make its Forms 1023 (1024 or 1024-A if applicable), 990, and 990-T (Section 501(c)(3)s only) available for public inspection. Indicate how you made these available. Check all that apply.
 Own website Another's website Upon request Other (explain in Schedule O)
- 19** Describe in Schedule O whether (and if so, how) the organization made its governing documents, conflict of interest policy, and financial statements available to the public during the tax year.
- 20** State the name, address, and telephone number of the person who possesses the organization's books and records ▶
Lee Grossman - 847-698-9980
9400 W. Higgins Road, Rosemont, IL 60018

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Part VII Compensation of Officers, Directors, Trustees, Key Employees, Highest Compensated Employees, and Independent Contractors

Check if Schedule O contains a response or note to any line in this Part VII

Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees

1a Complete this table for all persons required to be listed. Report compensation for the calendar year ending with or within the organization's tax year.

- List all of the organization's **current** officers, directors, trustees (whether individuals or organizations), regardless of amount of compensation. Enter -0- in columns (D), (E), and (F) if no compensation was paid.
- List all of the organization's **current** key employees, if any. See instructions for definition of "key employee."
- List the organization's five **current** highest compensated employees (other than an officer, director, trustee, or key employee) who received reportable compensation (Box 5 of Form W-2 and/or Box 7 of Form 1099-MISC) of more than \$100,000 from the organization and any related organizations.
- List all of the organization's **former** officers, key employees, and highest compensated employees who received more than \$100,000 of reportable compensation from the organization and any related organizations.
- List all of the organization's **former directors or trustees** that received, in the capacity as a former director or trustee of the organization, more than \$10,000 of reportable compensation from the organization and any related organizations.

List persons in the following order: individual trustees or directors; institutional trustees; officers; key employees; highest compensated employees; and former such persons.

Check this box if neither the organization nor any related organization compensated any current officer, director, or trustee.

(A) Name and Title	(B) Average hours per week (list any hours for related organizations below line)	(C) Position (do not check more than one box, unless person is both an officer and a director/trustee)						(D) Reportable compensation from the organization (W-2/1099-MISC)	(E) Reportable compensation from related organizations (W-2/1099-MISC)	(F) Estimated amount of other compensation from the organization and related organizations
		Individual trustee or director	Institutional trustee	Officer	Key employee	Highest compensated employee	Former			
(1) Michael L. Parks, MD President	5.00	X		X				0.	0.	0.
(2) James G. Borovsky Secretary-Treasurer	5.00	X		X				0.	0.	0.
(3) Jeffrey S. Abrams, MD Chair, Corporate Advisory	5.00	X						0.	0.	0.
(4) David C. Dvorak, JD Trustee	5.00	X						0.	0.	0.
(5) Matthew B. Dobbs, MD Vice Chair-Grants	5.00	X						0.	0.	0.
(6) Joshua J. Jacobs Chair-Mentorship Champ/Tre	5.00	X						0.	0.	0.
(7) Farshid Guilak, MD Trustee	5.00	X						0.	0.	0.
(8) Richard F. Santore, MD Chair-Individual Developme	5.00	X						0.	0.	0.
(9) Mary Lloyd Ireland, MD Trustee	5.00	X						0.	0.	0.
(10) Letha Y. Griffin, MD, PhD Trustee	5.00	X						0.	0.	0.
(11) Richard F. Kyle, MD President-elect	5.00	X		X				0.	0.	0.
(12) David G. Lewallen, MD Past President (2018-2019)	5.00	X		X				0.	0.	0.
(13) Christopher R. Adams, MD Trustee	5.00	X						0.	0.	0.
(14) Jeremie M. Axe, MD Trustee	5.00	X						0.	0.	0.
(15) B. Sonny Bal, MD, JD, MBA, PhD Trustee	5.00	X						0.	0.	0.
(16) Nicholas M. Bernthal, MD Trustee	5.00	X						0.	0.	0.
(17) Eric V. Dremel Trustee	5.00	X						0.	0.	0.

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Part VII Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees (continued)

(A) Name and title	(B) Average hours per week (list any hours for related organizations below line)	(C) Position (do not check more than one box, unless person is both an officer and a director/trustee)						(D) Reportable compensation from the organization (W-2/1099-MISC)	(E) Reportable compensation from related organizations (W-2/1099-MISC)	(F) Estimated amount of other compensation from the organization and related organizations
		Individual trustee or director	Institutional trustee	Officer	Key employee	Highest compensated employee	Former			
(18) James R. Ficke, MD Trustee thru 3/19	5.00	X					0.	0.	0.	
(19) Karen L. Hackett Trustee	5.00	X					0.	0.	0.	
(20) Lawrence L. Lenke, MD Trustee	5.00	X					0.	0.	0.	
(21) Timothy J. Luchetti, MD Trustee	5.00	X					0.	0.	0.	
(22) William C. McMaster, MD Trustee thru 3/19	5.00	X					0.	0.	0.	
(23) Andrew N. Pollak, MD Trustee	5.00	X					0.	0.	0.	
(24) Thomas P. Sculco, MD Trustee	5.00	X					0.	0.	0.	
(25) Annuunziato Amendola, MD Trustee	5.00	X					0.	0.	0.	
(26) Daniel J. Berry, MD Trustee	5.00	X					0.	0.	0.	
1b Sub-total							0.	0.	0.	
c Total from continuation sheets to Part VII, Section A							818,131.	0.	82,077.	
d Total (add lines 1b and 1c)							818,131.	0.	82,077.	

2 Total number of individuals (including but not limited to those listed above) who received more than \$100,000 of reportable compensation from the organization 5

	Yes	No
3 Did the organization list any former officer, director, or trustee, key employee, or highest compensated employee on line 1a? <i>If "Yes," complete Schedule J for such individual</i>		X
4 For any individual listed on line 1a, is the sum of reportable compensation and other compensation from the organization and related organizations greater than \$150,000? <i>If "Yes," complete Schedule J for such individual</i>	X	
5 Did any person listed on line 1a receive or accrue compensation from any unrelated organization or individual for services rendered to the organization? <i>If "Yes," complete Schedule J for such person</i>		X

Section B. Independent Contractors

1 Complete this table for your five highest compensated independent contractors that received more than \$100,000 of compensation from the organization. Report compensation for the calendar year ending with or within the organization's tax year.

(A) Name and business address	(B) Description of services	(C) Compensation
NONE		

2 Total number of independent contractors (including but not limited to those listed above) who received more than \$100,000 of compensation from the organization 0

See Part VII, Section A Continuation sheets

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Part VIII Statement of Revenue

Check if Schedule O contains a response or note to any line in this Part VIII

			(A) Total revenue	(B) Related or exempt function revenue	(C) Unrelated business revenue	(D) Revenue excluded from tax under sections 512 - 514	
Contributions, Gifts, Grants and Other Similar Amounts	1 a Federated campaigns	1a					
	b Membership dues	1b					
	c Fundraising events	1c					
	d Related organizations	1d					
	e Government grants (contributions)	1e					
	f All other contributions, gifts, grants, and similar amounts not included above	1f	3,198,011.				
	g Noncash contributions included in lines 1a-1f: \$						
	h Total. Add lines 1a-1f		3,198,011.				
Program Service Revenue	2 a _____	Business Code					
	b _____						
	c _____						
	d _____						
	e _____						
	f All other program service revenue						
	g Total. Add lines 2a-2f						
Other Revenue	3 Investment income (including dividends, interest, and other similar amounts)		441,988.			441,988.	
	4 Income from investment of tax-exempt bond proceeds						
	5 Royalties						
	6 a Gross rents	(i) Real	(ii) Personal				
		b Less: rental expenses					
		c Rental income or (loss)					
		d Net rental income or (loss)					
	7 a Gross amount from sales of assets other than inventory	(i) Securities	(ii) Other				
		5,771,407.					
		b Less: cost or other basis and sales expenses					
		5,739,324.					
	c Gain or (loss)						
	d Net gain or (loss)			32,083.		32,083.	
	8 a Gross income from fundraising events (not including \$ _____ of contributions reported on line 1c). See Part IV, line 18	a					
		b Less: direct expenses	b				
c Net income or (loss) from fundraising events							
9 a Gross income from gaming activities. See Part IV, line 19	a						
	b Less: direct expenses	b					
	c Net income or (loss) from gaming activities						
10 a Gross sales of inventory, less returns and allowances	a						
	b Less: cost of goods sold	b					
	c Net income or (loss) from sales of inventory						
Miscellaneous Revenue		Business Code					
11 a _____							
	b _____						
	c _____						
	d All other revenue						
	e Total. Add lines 11a-11d						
12 Total revenue. See instructions			3,672,082.	0.	0.	474,071.	

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Part IX Statement of Functional Expenses

Section 501(c)(3) and 501(c)(4) organizations must complete all columns. All other organizations must complete column (A).

Check if Schedule O contains a response or note to any line in this Part IX

	(A) Total expenses	(B) Program service expenses	(C) Management and general expenses	(D) Fundraising expenses
<i>Do not include amounts reported on lines 6b, 7b, 8b, 9b, and 10b of Part VIII.</i>				
1 Grants and other assistance to domestic organizations and domestic governments. See Part IV, line 21	2,231,583.	2,231,583.		
2 Grants and other assistance to domestic individuals. See Part IV, line 22				
3 Grants and other assistance to foreign organizations, foreign governments, and foreign individuals. See Part IV, lines 15 and 16				
4 Benefits paid to or for members				
5 Compensation of current officers, directors, trustees, and key employees	124,628.	13,709.	71,038.	39,881.
6 Compensation not included above, to disqualified persons (as defined under section 4958(f)(1)) and persons described in section 4958(c)(3)(B)				
7 Other salaries and wages	1,268,216.	382,977.	519,417.	365,822.
8 Pension plan accruals and contributions (include section 401(k) and 403(b) employer contributions)	65,860.	20,410.	26,538.	18,912.
9 Other employee benefits	78,204.	23,747.	33,118.	21,339.
10 Payroll taxes	90,983.	26,140.	38,399.	26,444.
11 Fees for services (non-employees):				
a Management	17,009.	3,403.	6,803.	6,803.
b Legal	22,765.		10,390.	12,375.
c Accounting	18,716.		18,716.	
d Lobbying				
e Professional fundraising services. See Part IV, line 17				
f Investment management fees	32,958.	16,479.		16,479.
g Other. (If line 11g amount exceeds 10% of line 25, column (A) amount, list line 11g expenses on Sch. O.)	4,265.	66.	4,132.	67.
12 Advertising and promotion	169,166.	30,780.	20,746.	117,640.
13 Office expenses	84,008.	14,845.	36,530.	32,633.
14 Information technology	113,493.	32,629.	47,856.	33,008.
15 Royalties				
16 Occupancy	128,075.	30,057.	58,839.	39,179.
17 Travel	47,576.	2,560.	26,694.	18,322.
18 Payments of travel or entertainment expenses for any federal, state, or local public officials				
19 Conferences, conventions, and meetings	193,571.	124,469.	14,596.	54,506.
20 Interest				
21 Payments to affiliates				
22 Depreciation, depletion, and amortization	27,943.	6,427.	12,854.	8,662.
23 Insurance	87,115.	58,834.	24,015.	4,266.
24 Other expenses. Itemize expenses not covered above. (List miscellaneous expenses in line 24e. If line 24e amount exceeds 10% of line 25, column (A) amount, list line 24e expenses on Schedule O.)				
a <u>Bad debt</u>	136,500.	68,250.		68,250.
b <u>Dues and subscriptions</u>	3,967.		1,149.	2,818.
c _____				
d _____				
e All other expenses _____				
25 Total functional expenses. Add lines 1 through 24e	4,946,601.	3,087,365.	971,830.	887,406.
26 Joint costs. Complete this line only if the organization reported in column (B) joint costs from a combined educational campaign and fundraising solicitation.				

Check here if following SOP 98-2 (ASC 958-720)

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Part X Balance Sheet

Check if Schedule O contains a response or note to any line in this Part X

		(A) Beginning of year		(B) End of year	
Assets	1 Cash - non-interest-bearing	465,434.	1	471.	
	2 Savings and temporary cash investments	2,784,754.	2	3,965,552.	
	3 Pledges and grants receivable, net	3,056,939.	3	1,976,546.	
	4 Accounts receivable, net		4		
	5 Loans and other receivables from current and former officers, directors, trustees, key employees, and highest compensated employees. Complete Part II of Schedule L			5	
	6 Loans and other receivables from other disqualified persons (as defined under section 4958(f)(1)), persons described in section 4958(c)(3)(B), and contributing employers and sponsoring organizations of section 501(c)(9) voluntary employees' beneficiary organizations (see instr). Complete Part II of Sch L			6	
	7 Notes and loans receivable, net			7	
	8 Inventories for sale or use			8	
	9 Prepaid expenses and deferred charges	52,573.	9	31,654.	
	10a Land, buildings, and equipment: cost or other basis. Complete Part VI of Schedule D	245,168.			
	b Less: accumulated depreciation	166,164.	10c	79,004.	
	11 Investments - publicly traded securities	14,772,453.	11	13,069,749.	
	12 Investments - other securities. See Part IV, line 11		12		
	13 Investments - program-related. See Part IV, line 11		13		
	14 Intangible assets		14		
	15 Other assets. See Part IV, line 11	4,298,655.	15	4,595,411.	
16 Total assets. Add lines 1 through 15 (must equal line 34)	25,537,755.	16	23,718,387.		
Liabilities	17 Accounts payable and accrued expenses	201,547.	17	185,244.	
	18 Grants payable	3,134,087.	18	3,168,119.	
	19 Deferred revenue		19		
	20 Tax-exempt bond liabilities		20		
	21 Escrow or custodial account liability. Complete Part IV of Schedule D		21		
	22 Loans and other payables to current and former officers, directors, trustees, key employees, highest compensated employees, and disqualified persons. Complete Part II of Schedule L		22		
	23 Secured mortgages and notes payable to unrelated third parties		23		
	24 Unsecured notes and loans payable to unrelated third parties		24		
	25 Other liabilities (including federal income tax, payables to related third parties, and other liabilities not included on lines 17-24). Complete Part X of Schedule D	699,042.	25	620,971.	
	26 Total liabilities. Add lines 17 through 25	4,034,676.	26	3,974,334.	
Net Assets or Fund Balances	Organizations that follow SFAS 117 (ASC 958), check here <input checked="" type="checkbox"/> and complete lines 27 through 29, and lines 33 and 34.				
	27 Unrestricted net assets	418,258.	27	453,327.	
	28 Temporarily restricted net assets	4,804,332.	28	3,887,518.	
	29 Permanently restricted net assets	16,280,489.	29	15,403,208.	
	Organizations that do not follow SFAS 117 (ASC 958), check here <input type="checkbox"/> and complete lines 30 through 34.				
	30 Capital stock or trust principal, or current funds		30		
	31 Paid-in or capital surplus, or land, building, or equipment fund		31		
	32 Retained earnings, endowment, accumulated income, or other funds		32		
33 Total net assets or fund balances	21,503,079.	33	19,744,053.		
34 Total liabilities and net assets/fund balances	25,537,755.	34	23,718,387.		

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Part XI Reconciliation of Net Assets

Check if Schedule O contains a response or note to any line in this Part XI

1 Total revenue (must equal Part VIII, column (A), line 12)	1	3,672,082.
2 Total expenses (must equal Part IX, column (A), line 25)	2	4,946,601.
3 Revenue less expenses. Subtract line 2 from line 1	3	-1,274,519.
4 Net assets or fund balances at beginning of year (must equal Part X, line 33, column (A))	4	21,503,079.
5 Net unrealized gains (losses) on investments	5	324,528.
6 Donated services and use of facilities	6	
7 Investment expenses	7	
8 Prior period adjustments	8	
9 Other changes in net assets or fund balances (explain in Schedule O)	9	-809,035.
10 Net assets or fund balances at end of year. Combine lines 3 through 9 (must equal Part X, line 33, column (B))	10	19,744,053.

Part XII Financial Statements and Reporting

Check if Schedule O contains a response or note to any line in this Part XII

		Yes	No
1 Accounting method used to prepare the Form 990: <input type="checkbox"/> Cash <input checked="" type="checkbox"/> Accrual <input type="checkbox"/> Other _____ If the organization changed its method of accounting from a prior year or checked "Other," explain in Schedule O.			
2a Were the organization's financial statements compiled or reviewed by an independent accountant?	2a		X
If "Yes," check a box below to indicate whether the financial statements for the year were compiled or reviewed on a separate basis, consolidated basis, or both: <input type="checkbox"/> Separate basis <input type="checkbox"/> Consolidated basis <input type="checkbox"/> Both consolidated and separate basis			
b Were the organization's financial statements audited by an independent accountant?	2b	X	
If "Yes," check a box below to indicate whether the financial statements for the year were audited on a separate basis, consolidated basis, or both: <input checked="" type="checkbox"/> Separate basis <input type="checkbox"/> Consolidated basis <input type="checkbox"/> Both consolidated and separate basis			
c If "Yes" to line 2a or 2b, does the organization have a committee that assumes responsibility for oversight of the audit, review, or compilation of its financial statements and selection of an independent accountant?	2c	X	
If the organization changed either its oversight process or selection process during the tax year, explain in Schedule O.			
3a As a result of a federal award, was the organization required to undergo an audit or audits as set forth in the Single Audit Act and OMB Circular A-133?	3a		X
b If "Yes," did the organization undergo the required audit or audits? If the organization did not undergo the required audit or audits, explain why in Schedule O and describe any steps taken to undergo such audits	3b		

Orthopaedic Research and Education

Part II Support Schedule for Organizations Described in Sections 170(b)(1)(A)(iv) and 170(b)(1)(A)(vi)

(Complete only if you checked the box on line 5, 7, or 8 of Part I or if the organization failed to qualify under Part III. If the organization fails to qualify under the tests listed below, please complete Part III.)

Section A. Public Support

Calendar year (or fiscal year beginning in) ►	(a) 2014	(b) 2015	(c) 2016	(d) 2017	(e) 2018	(f) Total
1 Gifts, grants, contributions, and membership fees received. (Do not include any "unusual grants.")	4520407.	5097325.	4715824.	5448193.	3198011.	22979760.
2 Tax revenues levied for the organization's benefit and either paid to or expended on its behalf						
3 The value of services or facilities furnished by a governmental unit to the organization without charge						
4 Total. Add lines 1 through 3	4520407.	5097325.	4715824.	5448193.	3198011.	22979760.
5 The portion of total contributions by each person (other than a governmental unit or publicly supported organization) included on line 1 that exceeds 2% of the amount shown on line 11, column (f)						2515975.
6 Public support. Subtract line 5 from line 4.						20463785.

Section B. Total Support

Calendar year (or fiscal year beginning in) ►	(a) 2014	(b) 2015	(c) 2016	(d) 2017	(e) 2018	(f) Total
7 Amounts from line 4	4520407.	5097325.	4715824.	5448193.	3198011.	22979760.
8 Gross income from interest, dividends, payments received on securities loans, rents, royalties, and income from similar sources	904,836.	805,283.	431,365.	506,240.	441,988.	3089712.
9 Net income from unrelated business activities, whether or not the business is regularly carried on						
10 Other income. Do not include gain or loss from the sale of capital assets (Explain in Part VI.)						
11 Total support. Add lines 7 through 10						26069472.
12 Gross receipts from related activities, etc. (see instructions)					12	
13 First five years. If the Form 990 is for the organization's first, second, third, fourth, or fifth tax year as a section 501(c)(3) organization, check this box and stop here						<input type="checkbox"/>

Section C. Computation of Public Support Percentage

14 Public support percentage for 2018 (line 6, column (f) divided by line 11, column (f))	14	78.50	%
15 Public support percentage from 2017 Schedule A, Part II, line 14	15	78.31	%
16a 33 1/3% support test - 2018. If the organization did not check the box on line 13, and line 14 is 33 1/3% or more, check this box and stop here. The organization qualifies as a publicly supported organization			<input checked="" type="checkbox"/>
b 33 1/3% support test - 2017. If the organization did not check a box on line 13 or 16a, and line 15 is 33 1/3% or more, check this box and stop here. The organization qualifies as a publicly supported organization			<input type="checkbox"/>
17a 10% -facts-and-circumstances test - 2018. If the organization did not check a box on line 13, 16a, or 16b, and line 14 is 10% or more, and if the organization meets the "facts-and-circumstances" test, check this box and stop here. Explain in Part VI how the organization meets the "facts-and-circumstances" test. The organization qualifies as a publicly supported organization			<input type="checkbox"/>
b 10% -facts-and-circumstances test - 2017. If the organization did not check a box on line 13, 16a, 16b, or 17a, and line 15 is 10% or more, and if the organization meets the "facts-and-circumstances" test, check this box and stop here. Explain in Part VI how the organization meets the "facts-and-circumstances" test. The organization qualifies as a publicly supported organization			<input type="checkbox"/>
18 Private foundation. If the organization did not check a box on line 13, 16a, 16b, 17a, or 17b, check this box and see instructions			<input type="checkbox"/>

Part III Support Schedule for Organizations Described in Section 509(a)(2)

(Complete only if you checked the box on line 10 of Part I or if the organization failed to qualify under Part II. If the organization fails to qualify under the tests listed below, please complete Part II.)

Section A. Public Support

Calendar year (or fiscal year beginning in) ►	(a) 2014	(b) 2015	(c) 2016	(d) 2017	(e) 2018	(f) Total
1 Gifts, grants, contributions, and membership fees received. (Do not include any "unusual grants.")						
2 Gross receipts from admissions, merchandise sold or services performed, or facilities furnished in any activity that is related to the organization's tax-exempt purpose						
3 Gross receipts from activities that are not an unrelated trade or business under section 513						
4 Tax revenues levied for the organization's benefit and either paid to or expended on its behalf						
5 The value of services or facilities furnished by a governmental unit to the organization without charge						
6 Total. Add lines 1 through 5						
7a Amounts included on lines 1, 2, and 3 received from disqualified persons						
b Amounts included on lines 2 and 3 received from other than disqualified persons that exceed the greater of \$5,000 or 1% of the amount on line 13 for the year						
c Add lines 7a and 7b						
8 Public support. (Subtract line 7c from line 6.)						

Section B. Total Support

Calendar year (or fiscal year beginning in) ►	(a) 2014	(b) 2015	(c) 2016	(d) 2017	(e) 2018	(f) Total
9 Amounts from line 6						
10a Gross income from interest, dividends, payments received on securities loans, rents, royalties, and income from similar sources						
b Unrelated business taxable income (less section 511 taxes) from businesses acquired after June 30, 1975						
c Add lines 10a and 10b						
11 Net income from unrelated business activities not included in line 10b, whether or not the business is regularly carried on						
12 Other income. Do not include gain or loss from the sale of capital assets (Explain in Part VI.)						
13 Total support. (Add lines 9, 10c, 11, and 12.)						

14 First five years. If the Form 990 is for the organization's first, second, third, fourth, or fifth tax year as a section 501(c)(3) organization, check this box and **stop here** ►

Section C. Computation of Public Support Percentage

15 Public support percentage for 2018 (line 8, column (f), divided by line 13, column (f))	15	%
16 Public support percentage from 2017 Schedule A, Part III, line 15	16	%

Section D. Computation of Investment Income Percentage

17 Investment income percentage for 2018 (line 10c, column (f), divided by line 13, column (f))	17	%
18 Investment income percentage from 2017 Schedule A, Part III, line 17	18	%

19a 33 1/3% support tests - 2018. If the organization did not check the box on line 14, and line 15 is more than 33 1/3%, and line 17 is not more than 33 1/3%, check this box and **stop here**. The organization qualifies as a publicly supported organization ►

b 33 1/3% support tests - 2017. If the organization did not check a box on line 14 or line 19a, and line 16 is more than 33 1/3%, and line 18 is not more than 33 1/3%, check this box and **stop here**. The organization qualifies as a publicly supported organization ►

20 Private foundation. If the organization did not check a box on line 14, 19a, or 19b, check this box and see instructions ►

Part IV Supporting Organizations

(Complete only if you checked a box in line 12 on Part I. If you checked 12a of Part I, complete Sections A and B. If you checked 12b of Part I, complete Sections A and C. If you checked 12c of Part I, complete Sections A, D, and E. If you checked 12d of Part I, complete Sections A and D, and complete Part V.)

Section A. All Supporting Organizations

	Yes	No
1 Are all of the organization's supported organizations listed by name in the organization's governing documents? <i>If "No," describe in Part VI how the supported organizations are designated. If designated by class or purpose, describe the designation. If historic and continuing relationship, explain.</i>		
2 Did the organization have any supported organization that does not have an IRS determination of status under section 509(a)(1) or (2)? <i>If "Yes," explain in Part VI how the organization determined that the supported organization was described in section 509(a)(1) or (2).</i>		
3a Did the organization have a supported organization described in section 501(c)(4), (5), or (6)? <i>If "Yes," answer (b) and (c) below.</i>		
b Did the organization confirm that each supported organization qualified under section 501(c)(4), (5), or (6) and satisfied the public support tests under section 509(a)(2)? <i>If "Yes," describe in Part VI when and how the organization made the determination.</i>		
c Did the organization ensure that all support to such organizations was used exclusively for section 170(c)(2)(B) purposes? <i>If "Yes," explain in Part VI what controls the organization put in place to ensure such use.</i>		
4a Was any supported organization not organized in the United States ("foreign supported organization")? <i>If "Yes," and if you checked 12a or 12b in Part I, answer (b) and (c) below.</i>		
b Did the organization have ultimate control and discretion in deciding whether to make grants to the foreign supported organization? <i>If "Yes," describe in Part VI how the organization had such control and discretion despite being controlled or supervised by or in connection with its supported organizations.</i>		
c Did the organization support any foreign supported organization that does not have an IRS determination under sections 501(c)(3) and 509(a)(1) or (2)? <i>If "Yes," explain in Part VI what controls the organization used to ensure that all support to the foreign supported organization was used exclusively for section 170(c)(2)(B) purposes.</i>		
5a Did the organization add, substitute, or remove any supported organizations during the tax year? <i>If "Yes," answer (b) and (c) below (if applicable). Also, provide detail in Part VI, including (i) the names and EIN numbers of the supported organizations added, substituted, or removed; (ii) the reasons for each such action; (iii) the authority under the organization's organizing document authorizing such action; and (iv) how the action was accomplished (such as by amendment to the organizing document).</i>		
b Type I or Type II only. Was any added or substituted supported organization part of a class already designated in the organization's organizing document?		
c Substitutions only. Was the substitution the result of an event beyond the organization's control?		
6 Did the organization provide support (whether in the form of grants or the provision of services or facilities) to anyone other than (i) its supported organizations, (ii) individuals that are part of the charitable class benefited by one or more of its supported organizations, or (iii) other supporting organizations that also support or benefit one or more of the filing organization's supported organizations? <i>If "Yes," provide detail in Part VI.</i>		
7 Did the organization provide a grant, loan, compensation, or other similar payment to a substantial contributor (as defined in section 4958(c)(3)(C)), a family member of a substantial contributor, or a 35% controlled entity with regard to a substantial contributor? <i>If "Yes," complete Part I of Schedule L (Form 990 or 990-EZ).</i>		
8 Did the organization make a loan to a disqualified person (as defined in section 4958) not described in line 7? <i>If "Yes," complete Part I of Schedule L (Form 990 or 990-EZ).</i>		
9a Was the organization controlled directly or indirectly at any time during the tax year by one or more disqualified persons as defined in section 4946 (other than foundation managers and organizations described in section 509(a)(1) or (2))? <i>If "Yes," provide detail in Part VI.</i>		
b Did one or more disqualified persons (as defined in line 9a) hold a controlling interest in any entity in which the supporting organization had an interest? <i>If "Yes," provide detail in Part VI.</i>		
c Did a disqualified person (as defined in line 9a) have an ownership interest in, or derive any personal benefit from, assets in which the supporting organization also had an interest? <i>If "Yes," provide detail in Part VI.</i>		
10a Was the organization subject to the excess business holdings rules of section 4943 because of section 4943(f) (regarding certain Type II supporting organizations, and all Type III non-functionally integrated supporting organizations)? <i>If "Yes," answer 10b below.</i>		
b Did the organization have any excess business holdings in the tax year? <i>(Use Schedule C, Form 4720, to determine whether the organization had excess business holdings.)</i>		

Part IV Supporting Organizations (continued)

	Yes	No
11 Has the organization accepted a gift or contribution from any of the following persons?		
a A person who directly or indirectly controls, either alone or together with persons described in (b) and (c) below, the governing body of a supported organization?		
b A family member of a person described in (a) above?		
c A 35% controlled entity of a person described in (a) or (b) above? <i>If "Yes" to a, b, or c, provide detail in Part VI.</i>		

Section B. Type I Supporting Organizations

	Yes	No
1 Did the directors, trustees, or membership of one or more supported organizations have the power to regularly appoint or elect at least a majority of the organization's directors or trustees at all times during the tax year? <i>If "No," describe in Part VI how the supported organization(s) effectively operated, supervised, or controlled the organization's activities. If the organization had more than one supported organization, describe how the powers to appoint and/or remove directors or trustees were allocated among the supported organizations and what conditions or restrictions, if any, applied to such powers during the tax year.</i>		
2 Did the organization operate for the benefit of any supported organization other than the supported organization(s) that operated, supervised, or controlled the supporting organization? <i>If "Yes," explain in Part VI how providing such benefit carried out the purposes of the supported organization(s) that operated, supervised, or controlled the supporting organization.</i>		

Section C. Type II Supporting Organizations

	Yes	No
1 Were a majority of the organization's directors or trustees during the tax year also a majority of the directors or trustees of each of the organization's supported organization(s)? <i>If "No," describe in Part VI how control or management of the supporting organization was vested in the same persons that controlled or managed the supported organization(s).</i>		

Section D. All Type III Supporting Organizations

	Yes	No
1 Did the organization provide to each of its supported organizations, by the last day of the fifth month of the organization's tax year, (i) a written notice describing the type and amount of support provided during the prior tax year, (ii) a copy of the Form 990 that was most recently filed as of the date of notification, and (iii) copies of the organization's governing documents in effect on the date of notification, to the extent not previously provided?		
2 Were any of the organization's officers, directors, or trustees either (i) appointed or elected by the supported organization(s) or (ii) serving on the governing body of a supported organization? <i>If "No," explain in Part VI how the organization maintained a close and continuous working relationship with the supported organization(s).</i>		
3 By reason of the relationship described in (2), did the organization's supported organizations have a significant voice in the organization's investment policies and in directing the use of the organization's income or assets at all times during the tax year? <i>If "Yes," describe in Part VI the role the organization's supported organizations played in this regard.</i>		

Section E. Type III Functionally Integrated Supporting Organizations

1 Check the box next to the method that the organization used to satisfy the Integral Part Test during the year (see instructions).		
a <input type="checkbox"/> The organization satisfied the Activities Test. Complete line 2 below.		
b <input type="checkbox"/> The organization is the parent of each of its supported organizations. Complete line 3 below.		
c <input type="checkbox"/> The organization supported a governmental entity. Describe in Part VI how you supported a government entity (see instructions).		
2 Activities Test. Answer (a) and (b) below.		
a Did substantially all of the organization's activities during the tax year directly further the exempt purposes of the supported organization(s) to which the organization was responsive? <i>If "Yes," then in Part VI identify those supported organizations and explain how these activities directly furthered their exempt purposes, how the organization was responsive to those supported organizations, and how the organization determined that these activities constituted substantially all of its activities.</i>		
b Did the activities described in (a) constitute activities that, but for the organization's involvement, one or more of the organization's supported organization(s) would have been engaged in? <i>If "Yes," explain in Part VI the reasons for the organization's position that its supported organization(s) would have engaged in these activities but for the organization's involvement.</i>		
3 Parent of Supported Organizations. Answer (a) and (b) below.		
a Did the organization have the power to regularly appoint or elect a majority of the officers, directors, or trustees of each of the supported organizations? <i>Provide details in Part VI.</i>		
b Did the organization exercise a substantial degree of direction over the policies, programs, and activities of each of its supported organizations? <i>If "Yes," describe in Part VI the role played by the organization in this regard.</i>		

Part V Type III Non-Functionally Integrated 509(a)(3) Supporting Organizations

1 Check here if the organization satisfied the Integral Part Test as a qualifying trust on Nov. 20, 1970 (explain in Part VI.) **See instructions.** All other Type III non-functionally integrated supporting organizations must complete Sections A through E.

Section A - Adjusted Net Income		(A) Prior Year	(B) Current Year (optional)
1	Net short-term capital gain	1	
2	Recoveries of prior-year distributions	2	
3	Other gross income (see instructions)	3	
4	Add lines 1 through 3	4	
5	Depreciation and depletion	5	
6	Portion of operating expenses paid or incurred for production or collection of gross income or for management, conservation, or maintenance of property held for production of income (see instructions)	6	
7	Other expenses (see instructions)	7	
8	Adjusted Net Income (subtract lines 5, 6, and 7 from line 4)	8	

Section B - Minimum Asset Amount		(A) Prior Year	(B) Current Year (optional)
1	Aggregate fair market value of all non-exempt-use assets (see instructions for short tax year or assets held for part of year):		
a	Average monthly value of securities	1a	
b	Average monthly cash balances	1b	
c	Fair market value of other non-exempt-use assets	1c	
d	Total (add lines 1a, 1b, and 1c)	1d	
e	Discount claimed for blockage or other factors (explain in detail in Part VI):		
2	Acquisition indebtedness applicable to non-exempt-use assets	2	
3	Subtract line 2 from line 1d	3	
4	Cash deemed held for exempt use. Enter 1-1/2% of line 3 (for greater amount, see instructions)	4	
5	Net value of non-exempt-use assets (subtract line 4 from line 3)	5	
6	Multiply line 5 by .035	6	
7	Recoveries of prior-year distributions	7	
8	Minimum Asset Amount (add line 7 to line 6)	8	

Section C - Distributable Amount		(A) Prior Year	Current Year
1	Adjusted net income for prior year (from Section A, line 8, Column A)	1	
2	Enter 85% of line 1	2	
3	Minimum asset amount for prior year (from Section B, line 8, Column A)	3	
4	Enter greater of line 2 or line 3	4	
5	Income tax imposed in prior year	5	
6	Distributable Amount. Subtract line 5 from line 4, unless subject to emergency temporary reduction (see instructions)	6	
7	<input type="checkbox"/> Check here if the current year is the organization's first as a non-functionally integrated Type III supporting organization (see instructions).		

Orthopaedic Research and Education

Schedule A (Form 990 or 990-EZ) 2018 **Foundation**

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Part V Type III Non-Functionally Integrated 509(a)(3) Supporting Organizations (continued)

Section D - Distributions	Current Year
1 Amounts paid to supported organizations to accomplish exempt purposes	
2 Amounts paid to perform activity that directly furthers exempt purposes of supported organizations, in excess of income from activity	
3 Administrative expenses paid to accomplish exempt purposes of supported organizations	
4 Amounts paid to acquire exempt-use assets	
5 Qualified set-aside amounts (prior IRS approval required)	
6 Other distributions (describe in Part VI). See instructions.	
7 Total annual distributions. Add lines 1 through 6.	
8 Distributions to attentive supported organizations to which the organization is responsive (provide details in Part VI). See instructions.	
9 Distributable amount for 2018 from Section C, line 6	
10 Line 8 amount divided by line 9 amount	

Section E - Distribution Allocations (see instructions)	(i) Excess Distributions	(ii) Underdistributions Pre-2018	(iii) Distributable Amount for 2018
1 Distributable amount for 2018 from Section C, line 6			
2 Underdistributions, if any, for years prior to 2018 (reasonable cause required- explain in Part VI). See instructions.			
3 Excess distributions carryover, if any, to 2018			
a From 2013			
b From 2014			
c From 2015			
d From 2016			
e From 2017			
f Total of lines 3a through e			
g Applied to underdistributions of prior years			
h Applied to 2018 distributable amount			
i Carryover from 2013 not applied (see instructions)			
j Remainder. Subtract lines 3g, 3h, and 3i from 3f.			
4 Distributions for 2018 from Section D, line 7: \$			
a Applied to underdistributions of prior years			
b Applied to 2018 distributable amount			
c Remainder. Subtract lines 4a and 4b from 4.			
5 Remaining underdistributions for years prior to 2018, if any. Subtract lines 3g and 4a from line 2. For result greater than zero, explain in Part VI . See instructions.			
6 Remaining underdistributions for 2018. Subtract lines 3h and 4b from line 1. For result greater than zero, explain in Part VI . See instructions.			
7 Excess distributions carryover to 2019. Add lines 3j and 4c.			
8 Breakdown of line 7:			
a Excess from 2014			
b Excess from 2015			
c Excess from 2016			
d Excess from 2017			
e Excess from 2018			

Schedule A (Form 990 or 990-EZ) 2018

Orthopaedic Research and Education

Part VI

Supplemental Information. Provide the explanations required by Part II, line 10; Part II, line 17a or 17b; Part III, line 12; Part IV, Section A, lines 1, 2, 3b, 3c, 4b, 4c, 5a, 6, 9a, 9b, 9c, 11a, 11b, and 11c; Part IV, Section B, lines 1 and 2; Part IV, Section C, line 1; Part IV, Section D, lines 2 and 3; Part IV, Section E, lines 1c, 2a, 2b, 3a, and 3b; Part V, line 1; Part V, Section B, line 1e; Part V, Section D, lines 5, 6, and 8; and Part V, Section E, lines 2, 5, and 6. Also complete this part for any additional information.
(See instructions.)

Horizontal lines for supplemental information.

SCHEDULE D (Form 990)

Department of the Treasury Internal Revenue Service

Supplemental Financial Statements

Complete if the organization answered "Yes" on Form 990, Part IV, line 6, 7, 8, 9, 10, 11a, 11b, 11c, 11d, 11e, 11f, 12a, or 12b. Attach to Form 990.

Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047

2018

Open to Public Inspection

Name of the organization Orthopaedic Research and Education Foundation Employer identification number 36-6009467

Part I Organizations Maintaining Donor Advised Funds or Other Similar Funds or Accounts. Complete if the organization answered "Yes" on Form 990, Part IV, line 6.

Table with 3 columns: Question, (a) Donor advised funds, (b) Funds and other accounts. Rows include total number at end of year, aggregate value of contributions, grants, and end of year, and two yes/no questions about donor property and grant fund usage.

Part II Conservation Easements. Complete if the organization answered "Yes" on Form 990, Part IV, line 7.

Table with 3 columns: Question, (a) Donor advised funds, (b) Funds and other accounts. Rows include purpose of easements, a table for lines 2a-2d, and questions about monitoring, expenses, and reporting.

Part III Organizations Maintaining Collections of Art, Historical Treasures, or Other Similar Assets. Complete if the organization answered "Yes" on Form 990, Part IV, line 8.

Table with 3 columns: Question, (a) Donor advised funds, (b) Funds and other accounts. Rows include questions about reporting works of art and assets for financial gain.

**Orthopaedic Research and Education
Foundation**

Part VII Investments - Other Securities.

Complete if the organization answered "Yes" on Form 990, Part IV, line 11b. See Form 990, Part X, line 12.

(a) Description of security or category (including name of security)	(b) Book value	(c) Method of valuation: Cost or end-of-year market value
(1) Financial derivatives		
(2) Closely-held equity interests		
(3) Other		
(A)		
(B)		
(C)		
(D)		
(E)		
(F)		
(G)		
(H)		
Total. (Col. (b) must equal Form 990, Part X, col. (B) line 12.) ▶		

Part VIII Investments - Program Related.

Complete if the organization answered "Yes" on Form 990, Part IV, line 11c. See Form 990, Part X, line 13.

(a) Description of investment	(b) Book value	(c) Method of valuation: Cost or end-of-year market value
(1)		
(2)		
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
Total. (Col. (b) must equal Form 990, Part X, col. (B) line 13.) ▶		

Part IX Other Assets.

Complete if the organization answered "Yes" on Form 990, Part IV, line 11d. See Form 990, Part X, line 15.

(a) Description	(b) Book value
(1) Charitable Remainder Trust Receivable	2,821,579.
(2) Cash Surrender Value of Life Insurance	1,759,748.
(3) Other receivables	14,084.
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
Total. (Column (b) must equal Form 990, Part X, col. (B) line 15.) ▶	4,595,411.

Part X Other Liabilities.

Complete if the organization answered "Yes" on Form 990, Part IV, line 11e or 11f. See Form 990, Part X, line 25.

(a) Description of liability	(b) Book value
1. (1) Federal income taxes	
(2) Due to Orthopaedic Partners	620,971.
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
Total. (Column (b) must equal Form 990, Part X, col. (B) line 25.) ▶	620,971.

2. Liability for uncertain tax positions. In Part XIII, provide the text of the footnote to the organization's financial statements that reports the organization's liability for uncertain tax positions under FIN 48 (ASC 740). Check here if the text of the footnote has been provided in Part XIII

Orthopaedic Research and Education
Foundation

Part XI Reconciliation of Revenue per Audited Financial Statements With Revenue per Return.

Complete if the organization answered "Yes" on Form 990, Part IV, line 12a.

1 Total revenue, gains, and other support per audited financial statements		1	4,306,870.
2 Amounts included on line 1 but not on Form 990, Part VIII, line 12:			
a Net unrealized gains (losses) on investments	2a	324,528.	
b Donated services and use of facilities	2b		
c Recoveries of prior year grants	2c		
d Other (Describe in Part XIII.)	2d	310,260.	
e Add lines 2a through 2d	2e		634,788.
3 Subtract line 2e from line 1		3	3,672,082.
4 Amounts included on Form 990, Part VIII, line 12, but not on line 1:			
a Investment expenses not included on Form 990, Part VIII, line 7b	4a		
b Other (Describe in Part XIII.)	4b		
c Add lines 4a and 4b	4c		0.
5 Total revenue. Add lines 3 and 4c. (This must equal Form 990, Part I, line 12.)		5	3,672,082.

Part XII Reconciliation of Expenses per Audited Financial Statements With Expenses per Return.

Complete if the organization answered "Yes" on Form 990, Part IV, line 12a.

1 Total expenses and losses per audited financial statements		1	6,065,896.
2 Amounts included on line 1 but not on Form 990, Part IX, line 25:			
a Donated services and use of facilities	2a		
b Prior year adjustments	2b		
c Other losses	2c		
d Other (Describe in Part XIII.)	2d	1,119,295.	
e Add lines 2a through 2d	2e		1,119,295.
3 Subtract line 2e from line 1		3	4,946,601.
4 Amounts included on Form 990, Part IX, line 25, but not on line 1:			
a Investment expenses not included on Form 990, Part VIII, line 7b	4a		
b Other (Describe in Part XIII.)	4b		
c Add lines 4a and 4b	4c		0.
5 Total expenses. Add lines 3 and 4c. (This must equal Form 990, Part I, line 18.)		5	4,946,601.

Part XIII Supplemental Information.

Provide the descriptions required for Part II, lines 3, 5, and 9; Part III, lines 1a and 4; Part IV, lines 1b and 2b; Part V, line 4; Part X, line 2; Part XI, lines 2d and 4b; and Part XII, lines 2d and 4b. Also complete this part to provide any additional information.

Part IV, line 2b:

On behalf of other orthopaedic organizations, the Foundation accepts contributions for which it performs recordkeeping and provides grants requested by those organizations.

Part X, Line 2:

FIN48 Note from Audited Financial Statements

The Foundation, an Illinois nonprofit corporation, is exempt from income taxes under Section 501(c)(3) of the Internal Revenue Code and applicable state law, except for taxes pertaining to unrelated business income, if any. The Foundation's annual information and income tax returns filed with the federal and state governments are subject to examination generally for

Part XIII Supplemental Information (continued)

three years after they are filed.

The Foundation has adopted the requirements for accounting for uncertain tax positions and management has determined that the Foundation was not required to record a liability related to uncertain tax positions as of June 30, 2019.

Part XI, Line 2d - Other Adjustments:

Change in cash surrender value of life insurance policies	59,802.
Change in charitable remainder trust receivable	250,458.
Total to Schedule D, Part XI, Line 2d	310,260.

Part XII, Line 2d - Other Adjustments:

Orthopaedic partner endowment distribution	1,119,295.
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**SCHEDULE I
(Form 990)**

Department of the Treasury
Internal Revenue Service

**Grants and Other Assistance to Organizations,
Governments, and Individuals in the United States**
Complete if the organization answered "Yes" on Form 990, Part IV, line 21 or 22.

▶ **Attach to Form 990.**

▶ **Go to www.irs.gov/Form990 for the latest information.**

OMB No. 1545-0047

2018

**Open to Public
Inspection**

Name of the organization **Orthopaedic Research and Education
Foundation**

Employer identification number
36-6009467

Part I General Information on Grants and Assistance

- 1** Does the organization maintain records to substantiate the amount of the grants or assistance, the grantees' eligibility for the grants or assistance, and the selection criteria used to award the grants or assistance? **Yes** **No**
- 2** Describe in Part IV the organization's procedures for monitoring the use of grant funds in the United States.

Part II Grants and Other Assistance to Domestic Organizations and Domestic Governments. Complete if the organization answered "Yes" on Form 990, Part IV, line 21, for any recipient that received more than \$5,000. Part II can be duplicated if additional space is needed.

1 (a) Name and address of organization or government	(b) EIN	(c) IRC section (if applicable)	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
American Academy of Orthopaedic Surgeons - 9400 West Higgins Road - Rosemont, IL 60018	36-2110592	501(c)(3)	5,000.	0.			2018 - AAOS/OREF/ORS Clinician Scholar Development Program
Albany Medical College 47 New Scotland Avenue Albany, NY 12208	14-1338310	501(c)(3)	5,000.	0.			Preoperative Phototherapy with Benzyl Peroxide to decrease P Acnes burden.
Cleveland Clinic Foundation 9500 Euclid Avenue Cleveland, OH 44195	34-0714585	501(c)(3)	48,179.	0.			Personalized Outcome Prediction Tool for Total Knee Arthroplasty
University of Alabama 1720 2nd Avenue South Birmingham, AL 35294	16-3600539	501(c)(3)	5,000.	0.			Biofilm Growth on Cerclage Materials: Are Nonmetallic Polymers Superior?
Columbia University Medical Center 630 West 168th Street New York, NY 10032	13-5598093	501(c)(3)	5,000.	0.			Early osteoarthritis after neonatal brachial plexus palsy
Northwestern University Department of Orthopaedic Surgery - 676 N. Saint Clair Street, Suite 1350 - Chicago, IL 60611	36-2167817	501(c)(3)	5,000.	0.			A multimodal nanofiber scaffold to improve bone healing in smokers

- 2** Enter total number of section 501(c)(3) and government organizations listed in the line 1 table ▶ _____
- 3** Enter total number of other organizations listed in the line 1 table ▶ _____

LHA For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule I (Form 990) (2018)

See Part IV for Column (h) descriptions

**Orthopaedic Research and Education
Foundation**

Schedule I (Form 990)

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Part II Continuation of Grants and Other Assistance to Governments and Organizations in the United States (Schedule I (Form 990), Part II.)

(a) Name and address of organization or government	(b) EIN	(c) IRC section if applicable	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of non-cash assistance	(h) Purpose of grant or assistance
Dartmouth College 11 Rope Ferry Road Hanover, NH 03755	02-0222111	501(c)(3)	5,000.	0.			Characterizing the Microbiome of the Native, Arthritic Knee
Duke University 200 West Main Street, Suite 820 Durham, NC 27705	56-0532129	501(c)(3)	5,000.	0.			Bortezomib: A novel treatment to improve survival in osteosarcoma
University of Arizona PO Box 210158 Tucson, AZ 85721	74-2652689	501(c)(3)	5,000.	0.			Recovery from Ciprofloxacin Induced Tendinopathy
Hospital for Special Surgery 535 East 17th Street New York, NY 10021	13-1624135	501(c)(3)	72,000.	0.			Mechanics of the Ankle and Adjacent Joints after Total Ankle Replacement
Hospital for Special Surgery 535 East 17th Street New York, NY 10021	13-1624135	501(c)(3)	5,000.	0.			Nutritional Sustenance and Waste Scavenging in Bone Grafting
University of Iowa 2 Gilmore Hall Iowa City, IA 52242	42-6004813	501(c)(3)	300,000.	0.			Benchmarking Expert Performance to Establish Competency in Wire Navigation
University of Rochester 518 Hylan Bldg, Box 270140 Rochester, NY 14627	16-0743209	501(c)(3)	298,350.	0.			Does the FAST Program Demonstrate Transfer Validity?
Massachusetts General Hospital 55 Fruit Street Boston, MA 02114	04-2697983	501(c)(3)	5,000.	0.			In vivo facet joint characteristics in patients with cervical spondylosis
MedStar Health Research Institute 6525 Belcrest Road, Suite 700 Hyattsville, MD 20782	52-6056274	501(c)(3)	5,000.	0.			The Effect of Skin Pigmentation on Evaluation of Distal Limb Ischemia

Schedule I (Form 990)

**Orthopaedic Research and Education
Foundation**

Schedule I (Form 990)

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Part II Continuation of Grants and Other Assistance to Governments and Organizations in the United States (Schedule I (Form 990), Part II.)

(a) Name and address of organization or government	(b) EIN	(c) IRC section if applicable	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of non-cash assistance	(h) Purpose of grant or assistance
Mayo Clinic 200 First Street SW Rochester, MN 55905	41-6011702	501(c)(3)	5,000.	0.			Baseball Statistics for Assessing Return to Play in Pitchers
NYU Langone Medical Center One Park Avenue, 17th floor New York, NY 10016	11-3556230	501(c)(3)	89,999.	0.			Targeting the Functional Safe-Zone with Robotic-Assisted THA
Pennsylvania State University H138 500 University Drive Hershey, PA 17033	24-6000376	501(c)(3)	5,000.	0.			Shoulder immobilization following reverse total shoulder arthroplasty
Stanford University 455 Broadway Street, 2nd Floor Redwood City, CA 64063	94-1156365	501(c)(3)	5,000.	0.			Investigation of an Acellular Synthetic Implant for Bone Regeneration
Rush University Medical Center 1653 W. Congress Parkway Chicago, IL 60612	36-2174823	501(c)(3)	50,000.	0.			Application Materials for Improved Predictions of Orthopaedic Implant Fixation
University of California, San Francisco - 3333 California St - San Francisco, CA 94143	94-6036493	501(c)(3)	5,000.	0.			Epidemiology, Outcomes and Cost of Revision Total Hip and Knee Arthroplasty
University of Cincinnati 51 Goodman Drive Cincinnati, OH 45221	31-6000989	501(c)(3)	75,000.	0.			Assessing Effects of EMR on Physician Well-Being using Smartphone Sensing
University of Pennsylvania 3451 Walnut St. Philadelphia, PA 19104	23-1352685	501(c)(3)	5,000.	0.			Limited Scar Resection for Chronic Achilles Repair: Use of a Rat Model
University of California, Los Angeles - 10889 Wilshire Blvd - Los Angeles, CA 90095	95-6006143	501(c)(3)	5,000.	0.			Macrophage Priming and Adoptive Transfers in Orthopaedic Implant Infections

Schedule I (Form 990)

**Orthopaedic Research and Education
Foundation**

Schedule I (Form 990)

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Part II Continuation of Grants and Other Assistance to Governments and Organizations in the United States (Schedule I (Form 990), Part II.)

(a) Name and address of organization or government	(b) EIN	(c) IRC section if applicable	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of non-cash assistance	(h) Purpose of grant or assistance
University of Pennsylvania 3451 Walnut St. Philadelphia, PA 19104	23-1352685	501(c)(3)	20,000.	0.			A Novel Tissue Engineered Anatomic Joint Replacement for TMC Osteoarthritis
University of Pittsburgh 3471 Fifth Avenue Pittsburgh, PA 15312	25-0965591	501(c)(3)	20,000.	0.			Heterotopic ossification in a murine model of lower extremity blast injury
University of Pittsburgh 123 University Place Pittsburgh, PA 15312	25-0965591	501(c)(3)	50,000.	0.			Bilateral Knee Kinematics in High and Low-Functioning Patients After TKA
The Rothman Institute 925 Chestnut Street Philadelphia, PA 19107	22-2620085	501(c)(3)	44,037.	0.			Photodynamic therapy for C. acnes decolonization of the shoulder dermis
University of Florida 207 Grinter Hall Gainesville, FL 32611	59-6002052	501(c)(3)	148,707.	0.			Development of a Protocol to Evaluate Baseball Pitcher's Workload
Washington University in St. Louis One Brookings Drive St Louis, MO 63130	43-0653611	501(c)(3)	50,000.	0.			Understanding The Molecular Biology Of Shoulder Joint Degeneration
Washington University in St. Louis One Brookings Drive St Louis, MO 63130	43-0653611	501(c)(3)	5,000.	0.			In Vivo Analysis of 3D Printed Peripheral Nerve Conduits
Wake Forest University PO Box 7528 Winston-Salem, NC 27109	15-6053213	501(c)(3)	20,000.	0.			Musculoskeletal Uses of Botulinum Toxins: A 30 Year Translational Journey at Wake Forest
Orthopaedic Research Society 9400 West Higgins Road Rosemont, IL 60018	36-3180285	501(c)(3)	5,000.	0.			Clinician Scholar Career Development Program (CSDP)

Schedule I (Form 990)

**Orthopaedic Research and Education
Foundation**

Schedule I (Form 990)

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Part II Continuation of Grants and Other Assistance to Governments and Organizations in the United States (Schedule I (Form 990), Part II.)

(a) Name and address of organization or government	(b) EIN	(c) IRC section if applicable	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of non-cash assistance	(h) Purpose of grant or assistance
Yale University PO Box 208327 New Haven, CT 06520	06-0646973	501(c)(3)	5,000.	0.			Metastatic Breast Cancer and the Induction of Bone Resorption
Rhode Island Hospital 593 Eddy Street Providence, RI 02903	95-6006143	501(c)(3)	98,000.	0.			Implementing allogeneic stem cells from cartilage graft in meniscus repair
University of California, Los Angeles - 10889 Wilshire Blvd - Los Angeles, CA 90095	05-0258954	501(c)(3)	150,000.	0.			Biologic Therapy to Prevent Osteoarthritis After ACL Injury
University of Kentucky Research Foundation - 500 South Limestone - Lexington, KY 40506	61-6033693	501(c)(3)	217,261.	0.			Predictors of Persistent Pain and Performance in Patients with Fractures
The University of Texas Health Science Center at Houston - 7000 Fannin, UTC 1006 - Houston, TX 77030	74-1761309	501(c)(3)	297,726.	0.			Fracture Fixation Training using a Hybrid Simulator with Data Visualization
Rhode Island Hospital 593 Eddy Street Providence, RI 02903	05-0258954	501(c)(3)	5,000.	0.			Initial Metacarpal Stability Following Thumb Carpometacarpal Arthroplasty
University of Iowa, Department of Orthopaedics & Rehabilitation - 200 Hawkins Drive - Iowa City, IA 52242	42-6004813	501(c)(3)	5,000.	0.			The Utility of Deltoid Ligament Reconstruction in Syndesmotic Injuries
University of California, Los Angeles - 10889 Wilshire Blvd - Los Angeles, CA 90095	95-6006143	501(c)(3)	5,000.	0.			The Promise of Photodynamic Therapy (PDT) for Implant Infection
Stanford University 455 Broadway Street, 2nd Floor Redwood City, CA 94063	94-1156365	501(c)(3)	5,000.	0.			Prospective Isolation of Skeletal Stem Cells from Human Fractures In Vivo

Schedule I (Form 990)

Orthopaedic Research and Education
Foundation

Part III **Grants and Other Assistance to Domestic Individuals.** Complete if the organization answered "Yes" on Form 990, Part IV, line 22.
Part III can be duplicated if additional space is needed.

(a) Type of grant or assistance	(b) Number of recipients	(c) Amount of cash grant	(d) Amount of non-cash assistance	(e) Method of valuation (book, FMV, appraisal, other)	(f) Description of noncash assistance

Part IV **Supplemental Information.** Provide the information required in Part I, line 2; Part III, column (b); and any other additional information.

Part I, Line 2:

The Research Grants Committee is responsible for allocating research funding to advance research in the specialty of orthopaedics and is empowered to establish criteria for the allocation and distribution of philanthropic funds to advance research in the specialty of orthopaedics, implement and conduct independent peer review process to select research funding recipients, prepare and distribute necessary promotional information and application forms for research grants and awards and to accept and allocate or decline to allocate, at its sole and absolute

Part IV Supplemental Information

discretion, grants and awards for research.

One-year grant recipients receive 50% of the funds to start, then 40% after a six-month financial report is received. A final scientific and lay report within 60 days after the grant ends along with a final financial report is required. Once OREF has the final reports the remaining 10% of the funds are released.

One-time award/educational grant/lectureship grants receive full payment after they are approved. Documentation is in the file for lectureships, educational programs and awards.

Two or three-year grants are paid and spread over the term of the grant. 10% is withheld until all of the reports are received. Multi-year grant recipients submit annual scientific reports which are then reviewed by the original peer review committee member.

Part II, line 1, Column (h):

Name of Organization or Government: Wake Forest University

(h) Purpose of Grant or Assistance: Musculoskeletal Uses of Botulinum

Toxins: A 30 Year Translational Journey at Wake Forest School of Medicine

**SCHEDULE J
(Form 990)**

Compensation Information

OMB No. 1545-0047

2018

Open to Public Inspection

For certain Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees
 ▶ Complete if the organization answered "Yes" on Form 990, Part IV, line 23.
 ▶ Attach to Form 990.
 ▶ Go to www.irs.gov/Form990 for instructions and the latest information.

Department of the Treasury
Internal Revenue Service

Name of the organization **Orthopaedic Research and Education Foundation** Employer identification number **36-6009467**

Part I Questions Regarding Compensation

1a Check the appropriate box(es) if the organization provided any of the following to or for a person listed on Form 990, Part VII, Section A, line 1a. Complete Part III to provide any relevant information regarding these items.

- | | |
|--|--|
| <input type="checkbox"/> First-class or charter travel | <input type="checkbox"/> Housing allowance or residence for personal use |
| <input type="checkbox"/> Travel for companions | <input type="checkbox"/> Payments for business use of personal residence |
| <input type="checkbox"/> Tax indemnification and gross-up payments | <input type="checkbox"/> Health or social club dues or initiation fees |
| <input type="checkbox"/> Discretionary spending account | <input type="checkbox"/> Personal services (such as maid, chauffeur, chef) |

b If any of the boxes on line 1a are checked, did the organization follow a written policy regarding payment or reimbursement or provision of all of the expenses described above? If "No," complete Part III to explain

2 Did the organization require substantiation prior to reimbursing or allowing expenses incurred by all directors, trustees, and officers, including the CEO/Executive Director, regarding the items checked on line 1a?

3 Indicate which, if any, of the following the filing organization used to establish the compensation of the organization's CEO/Executive Director. Check all that apply. Do not check any boxes for methods used by a related organization to establish compensation of the CEO/Executive Director, but explain in Part III.

- | | |
|--|---|
| <input checked="" type="checkbox"/> Compensation committee | <input type="checkbox"/> Written employment contract |
| <input type="checkbox"/> Independent compensation consultant | <input type="checkbox"/> Compensation survey or study |
| <input type="checkbox"/> Form 990 of other organizations | <input checked="" type="checkbox"/> Approval by the board or compensation committee |

4 During the year, did any person listed on Form 990, Part VII, Section A, line 1a, with respect to the filing organization or a related organization:

- a** Receive a severance payment or change-of-control payment?
- b** Participate in, or receive payment from, a supplemental nonqualified retirement plan?
- c** Participate in, or receive payment from, an equity-based compensation arrangement?
- If "Yes" to any of lines 4a-c, list the persons and provide the applicable amounts for each item in Part III.

Only section 501(c)(3), 501(c)(4), and 501(c)(29) organizations must complete lines 5-9.

5 For persons listed on Form 990, Part VII, Section A, line 1a, did the organization pay or accrue any compensation contingent on the revenues of:

- a** The organization?
- b** Any related organization?
- If "Yes" on line 5a or 5b, describe in Part III.

6 For persons listed on Form 990, Part VII, Section A, line 1a, did the organization pay or accrue any compensation contingent on the net earnings of:

- a** The organization?
- b** Any related organization?
- If "Yes" on line 6a or 6b, describe in Part III.

7 For persons listed on Form 990, Part VII, Section A, line 1a, did the organization provide any nonfixed payments not described on lines 5 and 6? If "Yes," describe in Part III

8 Were any amounts reported on Form 990, Part VII, paid or accrued pursuant to a contract that was subject to the initial contract exception described in Regulations section 53.4958-4(a)(3)? If "Yes," describe in Part III

9 If "Yes" on line 8, did the organization also follow the rebuttable presumption procedure described in Regulations section 53.4958-6(c)?

	Yes	No
1b		
2		
4a	X	
4b		X
4c		X
5a		X
5b		X
6a		X
6b		X
7		X
8		X
9		

LHA For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule J (Form 990) 2018

Orthopaedic Research and Education
Foundation

Part II Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees. Use duplicate copies if additional space is needed.

For each individual whose compensation must be reported on Schedule J, report compensation from the organization on row (i) and from related organizations, described in the instructions, on row (ii). Do not list any individuals that aren't listed on Form 990, Part VII.

Note: The sum of columns (B)(i)-(iii) for each listed individual must equal the total amount of Form 990, Part VII, Section A, line 1a, applicable column (D) and (E) amounts for that individual.

(A) Name and Title	(i)	(B) Breakdown of W-2 and/or 1099-MISC compensation			(C) Retirement and other deferred compensation	(D) Nontaxable benefits	(E) Total of columns (B)(i)-(D)	(F) Compensation in column (B) reported as deferred on prior Form 990
		(i) Base compensation	(ii) Bonus & incentive compensation	(iii) Other reportable compensation				
(1) P. Joanne Ray CEO thru 8/2018	(i)	85,953.	19,000.	179,010.	8,314.	18,939.	311,216.	0.
	(ii)	0.	0.	0.	0.	0.	0.	0.
(2) Carol Wargo Vice President of Corporat	(i)	143,351.	150.	0.	11,343.	0.	154,844.	0.
	(ii)	0.	0.	0.	0.	0.	0.	0.
(3) Edward Hoover Senior VP of Development	(i)	138,544.	3,000.	0.	11,245.	1,914.	154,703.	0.
	(ii)	0.	0.	0.	0.	0.	0.	0.
	(i)							
	(ii)							
	(i)							
	(ii)							
	(i)							
	(ii)							
	(i)							
	(ii)							
	(i)							
	(ii)							
	(i)							
	(ii)							
	(i)							
	(ii)							
	(i)							
	(ii)							
	(i)							
	(ii)							
	(i)							
	(ii)							

Part III Supplemental Information

Provide the information, explanation, or descriptions required for Part I, lines 1a, 1b, 3, 4a, 4b, 4c, 5a, 5b, 6a, 6b, 7, and 8, and for Part II. Also complete this part for any additional information.

Part I, Line 4a:

Joanne Ray, former CEO, received severance of \$179,010 upon leaving the
Organization in August 2018. Severance was included in her 2018 W-2.

SCHEDULE O
(Form 990 or 990-EZ)

Department of the Treasury
Internal Revenue Service

Supplemental Information to Form 990 or 990-EZ

Complete to provide information for responses to specific questions on
Form 990 or 990-EZ or to provide any additional information.

▶ Attach to Form 990 or 990-EZ.

▶ Go to www.irs.gov/Form990 for the latest information.

OMB No. 1545-0047

2018

Open to Public
Inspection

Name of the organization	Orthopaedic Research and Education Foundation	Employer identification number	36-6009467
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Form 990, Part VI, Section B, line 11b:

The Finance Committee reviewed and approved the Form 990. It was provided to the Board of Directors, who had an opportunity to review the return prior to filing.

Form 990, Part VI, Section B, Line 12c:

All Trustees annual conflict of interest statements are on file with the OREF CEO. The CEO reviews meeting agendas prior to the meeting and notifies leadership of any issues that need to be addressed before the discussions take place. Any individual who gives notice of a potential conflict is to abstain from participation in discussions related to that item.

Form 990, Part VI, Section B, Line 15:

The Foundation has a formal process to determine the compensation of its CEO. The process includes the following:

- 1) Review and approval by the Board of Trustees or Compensation Committee;
- 2) Use of comparable compensation data;
- 3) Contemporaneous documentation and record keeping.

Form 990, Part VI, Line 17, List of States receiving copy of Form 990:

AK, AL, AR, AZ, CA, CT, DC, DE, FL, GA, IL, IN, KS, KY, LA, MA, MD, ME, MI, MS, MN, MO, MT, NC, ND
NE, NH, NM, NY, OH, OK, OR, PA, RI, SC, SD, TN, UT, VA, WA, WI, WV, WY

Form 990, Part VI, Section C, Line 19:

The Foundation made its governing documents, conflict of interest policy, and financial statements available to the public upon request for the

Name of the organization Orthopaedic Research and Education Foundation	Employer identification number 36-6009467
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period of disclosure set forth in IRC Section 6104(d).

Form 990, Part XI, line 9, Changes in Net Assets:

Orthopaedic partner endowment distribution	-1,119,295.
Change in cash surrender value of life insurance policies	59,802.
Change in charitable remainder trust receivable	250,458.
Total to Form 990, Part XI, Line 9	-809,035.

**SCHEDULE R
(Form 990)**

Department of the Treasury
Internal Revenue Service

Related Organizations and Unrelated Partnerships

▶ Complete if the organization answered "Yes" on Form 990, Part IV, line 33, 34, 35b, 36, or 37.

▶ Attach to Form 990.

▶ Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047

2018

Open to Public Inspection

Name of the organization **Orthopaedic Research and Education Foundation** Employer identification number **36-6009467**

Part I Identification of Disregarded Entities. Complete if the organization answered "Yes" on Form 990, Part IV, line 33.

(a) Name, address, and EIN (if applicable) of disregarded entity	(b) Primary activity	(c) Legal domicile (state or foreign country)	(d) Total income	(e) End-of-year assets	(f) Direct controlling entity

Part II Identification of Related Tax-Exempt Organizations. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, because it had one or more related tax-exempt organizations during the tax year.

(a) Name, address, and EIN of related organization	(b) Primary activity	(c) Legal domicile (state or foreign country)	(d) Exempt Code section	(e) Public charity status (if section 501(c)(3))	(f) Direct controlling entity	(g) Section 512(b)(13) controlled entity?	
						Yes	No

For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule R (Form 990) 2018

**Orthopaedic Research and Education
Foundation**

Part V Transactions With Related Organizations. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, 35b, or 36.

Note: Complete line 1 if any entity is listed in Parts II, III, or IV of this schedule.

1 During the tax year, did the organization engage in any of the following transactions with one or more related organizations listed in Parts II-IV?

	Yes	No
a Receipt of (i) interest, (ii) annuities, (iii) royalties, or (iv) rent from a controlled entity	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b Gift, grant, or capital contribution to related organization(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Gift, grant, or capital contribution from related organization(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d Loans or loan guarantees to or for related organization(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e Loans or loan guarantees by related organization(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f Dividends from related organization(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g Sale of assets to related organization(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h Purchase of assets from related organization(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i Exchange of assets with related organization(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
j Lease of facilities, equipment, or other assets to related organization(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
k Lease of facilities, equipment, or other assets from related organization(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
l Performance of services or membership or fundraising solicitations for related organization(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
m Performance of services or membership or fundraising solicitations by related organization(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
n Sharing of facilities, equipment, mailing lists, or other assets with related organization(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
o Sharing of paid employees with related organization(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
p Reimbursement paid to related organization(s) for expenses	<input type="checkbox"/>	<input checked="" type="checkbox"/>
q Reimbursement paid by related organization(s) for expenses	<input type="checkbox"/>	<input checked="" type="checkbox"/>
r Other transfer of cash or property to related organization(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
s Other transfer of cash or property from related organization(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2 If the answer to any of the above is "Yes," see the instructions for information on who must complete this line, including covered relationships and transaction thresholds.

(a) Name of related organization	(b) Transaction type (a-s)	(c) Amount involved	(d) Method of determining amount involved
(1)			
(2)			
(3)			
(4)			
(5)			
(6)			

