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Form 990  Department of the Treasury Internal Revenue Service	Return of Organization Exempt From Income Tax Under section 501(c), 527, or 4947(a)(1) of the Internal Revenue Code (except black lung benefit trust or private foundation)	OMB No 1545-0047 2009 Open to Public Inspection
	The organization may have to use a copy of this return to satisfy state reporting requirements	

A For the 2009 calendar year, or tax year beginning 01-01-2009 and ending 12-31-2009									
B Check if applicable ☐ Address change ☐ Name change ☐ Initial return ☐ Terminated ☐ Amended return ☐ Application pending		Please use IRS label or print or type. See Specific Instructions.		C Name of organization LOWELL OBSERVATORY				D Employer identification number 86-0098918	
				Doing Business As				E Telephone number (928) 774-3358	
				Number and street (or P O box if mail is not delivered to street address) 1400 W Mars Hill Road			Room/suite	G Gross receipts \$ 14,721,714	
				City or town, state or country, and ZIP + 4 Flagstaff, AZ 860014470					
				F Name and address of principal officer Jeffrey C Hall Lowell Observatory 1400 W Mars Hill Road Flagstaff, AZ 860014470				H(a) Is this a group return for affiliates? ☐ Yes ☒ No	
						H(b) Are all affiliates included? ☐ Yes ☐ No If "No," attach a list (see instructions)			
						H(c) Group exemption number			
I Tax-exempt status ☒ 501(c) (3) ◀ (insert no) ☐ 4947(a)(1) or ☐ 527									
J Website: ▶ www.lowell.edu									
K Form of organization ☒ Corporation ☐ Trust ☐ Association ☐ Other ▶						L Year of formation 1946		M State of legal domicile AZ	

Part I		Summary		
Activities & Governance	1	Briefly describe the organization's mission or most significant activities Conduct astronomical research and sponsor educational programs related to astronomy		
	2	Check this box ☐ if the organization discontinued its operations or disposed of more than 25% of its net assets		
	3	Number of voting members of the governing body (Part VI, line 1a)	3	
	4	Number of independent voting members of the governing body (Part VI, line 1b)	4	
	5	Total number of employees (Part V, line 2a)	5 9	
	6	Total number of volunteers (estimate if necessary)	6 5	
	7a	Total gross unrelated business revenue from Part VIII, column (C), line 12	7a	
	b	Net unrelated business taxable income from Form 990-T, line 34	7b	
Revenue	8	Contributions and grants (Part VIII, line 1h)	Prior Year 6,462,543	Current Year 13,765,852
	9	Program service revenue (Part VIII, line 2g)	370,546	348,729
	10	Investment income (Part VIII, column (A), lines 3, 4, and 7d)	93,189	20,089
	11	Other revenue (Part VIII, column (A), lines 5, 6d, 8c, 9c, 10c, and 11e)	224,110	376,627
	12	Total revenue—add lines 8 through 11 (must equal Part VIII, column (A), line 12)	7,150,388	14,511,297
	Expenses	13	Grants and similar amounts paid (Part IX, column (A), lines 1–3)	500
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)	3,743,164	3,799,616
16a		Professional fundraising fees (Part IX, column (A), line 11e)	0	0
b		Total fundraising expenses (Part IX, column (D), line 25) <u>193,599</u>		
17		Other expenses (Part IX, column (A), lines 11a–11d, 11f–24f)	1,956,638	1,854,397
18		Total expenses Add lines 13–17 (must equal Part IX, column (A), line 25)	5,700,302	5,654,513
19		Revenue less expenses Subtract line 18 from line 12	1,450,086	8,856,784
Net Assets or Fund Balances		Beginning of Current Year	End of Year	
	20	Total assets (Part X, line 16)	32,239,139	44,855,885
	21	Total liabilities (Part X, line 26)	1,543,979	5,289,716
	22	Net assets or fund balances Subtract line 21 from line 20	30,695,160	39,566,169

Part II		Signature Block			
Sign Here	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				
	Signature of officer			2010-08-12 Date	
	Robin Melena Secretary/Treasurer Type or print name and title				
Paid Preparer's Use Only	Preparer's signature		Date	Check if self-employed ☐	Preparer's identifying number (see instructions)
	Firm's name (or yours if self-employed), address, and ZIP + 4				EIN
					Phone no

Part III Statement of Program Service Accomplishments

1 Briefly describe the organization’s mission

The mission of Lowell Observatory is to pursue the study of astronomy, especially the study of the solar system and its evolution, to conduct pure research in astronomical phenomena, and to maintain quality public education and outreach programs to bring the results of astronomical research to the public

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

If “Yes,” describe these new services on Schedule O

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

If “Yes,” describe these changes on Schedule O

4 Describe the exempt purpose achievements for each of the organization’s three largest program services by expenses

Section 501(c)(3) and 501(c)(4) organizations and section 4947(a)(1) trusts 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 \$ 3,754,945 including grants of \$ 294,189) (Revenue \$ 230,656)
	Conduct astronomical research 80 publications Research is funded primarily through government grants of \$3,527,284

4b	(Code) (Expenses \$ 553,949 including grants of \$ 0) (Revenue \$ 456,428)
	Educational programs related to astronomy the visitors center and outreach programs served an estimated 80,327 visitors and an additional 70 at special public events

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

4d	Other program services (Describe in Schedule O)
	(Expenses \$ 0 including grants of \$ 0) (Revenue \$ 0)

4e	Total program service expenses \$ 4,308,894
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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)? If "Yes," complete Schedule A 	1	Yes	
2	Is the organization required to complete Schedule B, Schedule of Contributors? 	2	Yes	
3	Did the organization engage in direct or indirect political campaign activities on behalf of or in opposition to candidates for public office? If "Yes," complete Schedule C, Part I	3		No
4	Section 501(c)(3) organizations. Did the organization engage in lobbying activities? If "Yes," complete Schedule C, Part II	4		No
5	Section 501(c)(4), 501(c)(5), and 501(c)(6) organizations. Is the organization subject to the section 6033(e) notice and reporting requirement and proxy tax? If "Yes," complete Schedule C, Part III	5		
6	Did the organization maintain any donor advised funds or any similar funds or accounts where donors have the right to provide advice on the distribution or investment of amounts in such funds or accounts? If "Yes," complete Schedule D, Part I	6		No
7	Did the organization receive or hold a conservation easement, including easements to preserve open space, the environment, historic land areas or historic structures? If "Yes," complete Schedule D, Part II	7		No
8	Did the organization maintain collections of works of art, historical treasures, or other similar assets? If "Yes," complete Schedule D, Part III 	8	Yes	
9	Did the organization report an amount in Part X, line 21, serve as a custodian for amounts not listed in Part X, or provide credit counseling, debt management, credit repair, or debt negotiation services? If "Yes," complete Schedule D, Part IV	9		No
10	Did the organization, directly or through a related organization, hold assets in term, permanent, or quasi-endowments? If "Yes," complete Schedule D, Part V 	10	Yes	
11	Is the organization's answer to any of the following questions "Yes"? If so, complete Schedule D, Parts VI, VII, VIII, IX, or X as applicable.	11	Yes	
	• Did the organization report an amount for land, buildings, and equipment in Part X, line 10? If "Yes," complete Schedule D, Part VI.			
	• 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? If "Yes," complete Schedule D, Part VII.			
	• 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? If "Yes," complete Schedule D, Part VIII.			
	• 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? If "Yes," complete Schedule D, Part IX.			
	• Did the organization report an amount for other liabilities in Part X, line 25? If "Yes," complete Schedule D, Part X.			
	• 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? If "Yes," complete Schedule D, Part X.			
12	Did the organization obtain separate, independent audited financial statements for the tax year? If "Yes," complete Schedule D, Parts XI, XII, and XIII	12		No
12A	Was the organization included in consolidated, independent audited financial statements for the tax year?	Yes	No	
	If "Yes," completing Schedule D, Parts XI, XII, and XIII is optional	12A	Yes	
13	Is the organization a school described in section 170(b)(1)(A)(ii)? If "Yes," complete Schedule E	13		No
14a	Did the organization maintain an office, employees, or agents outside of the United States?	14a		No
b	Did the organization have aggregate revenues or expenses of more than \$10,000 from grantmaking, fundraising, business, and program service activities outside the United States? If "Yes," complete Schedule F, Part I	14b		No
15	Did the organization report on Part IX, column (A), line 3, more than \$5,000 of grants or assistance to any organization or entity located outside the U S ? If "Yes," complete Schedule F, Part II	15		No
16	Did the organization report on Part IX, column (A), line 3, more than \$5,000 of aggregate grants or assistance to individuals located outside the U S ? If "Yes," complete Schedule F, Part III	16		No
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? If "Yes," complete Schedule G, Part I	17		No
18	Did the organization report more than \$15,000 total of fundraising event gross income and contributions on Part VIII, lines 1c and 8a? If "Yes," complete Schedule G, Part II	18		No
19	Did the organization report more than \$15,000 of gross income from gaming activities on Part VIII, line 9a? If "Yes," complete Schedule G, Part III	19		No
20	Did the organization operate one or more hospitals? If "Yes," complete Schedule H	20		No

Part IV

Checklist of Required Schedules (continued)

21	Did the organization report more than \$5,000 of grants and other assistance to governments and organizations in the United States on Part IX, column (A), line 1? <i>If "Yes," complete Schedule I, Parts I and II</i>	21		No
22	Did the organization report more than \$5,000 of grants and other assistance to individuals in the United States on Part IX, column (A), line 2? <i>If "Yes," complete Schedule I, Parts I and III</i>	22		No
23	Did the organization answer "Yes" to Part VII, Section A, questions 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		No
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 questions 24b–24d and complete Schedule K. If "No," go to line 25</i>	24a		No
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) and 501(c)(4) 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		No
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		No
26	Was a loan to or by a current or former officer, director, trustee, key employee, highly compensated employee, or disqualified person outstanding as of the end of the organization's tax year? <i>If "Yes," complete Schedule L, Part II</i>	26		No
27	Did the organization provide a grant or other assistance to an officer, director, trustee, key employee, substantial contributor, or a grant selection committee member, or to a person related to such an individual? <i>If "Yes," complete Schedule L, Part III</i>	27		No
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		No
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		No
c	An entity of which a current or former officer, director, trustee, or key employee of the organization (or a family member) was an officer, director, trustee, or owner? <i>If "Yes," complete Schedule L, Part IV</i>	28c		No
29	Did the organization receive more than \$25,000 in non-cash contributions? <i>If "Yes," complete Schedule M</i> 	29	Yes	
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		No
31	Did the organization liquidate, terminate, or dissolve and cease operations? <i>If "Yes," complete Schedule N, Part I</i>	31		No
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		No
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		No
34	Was the organization related to any tax-exempt or taxable entity? <i>If "Yes," complete Schedule R, Parts II, III, IV, and V, line 1</i> 	34	Yes	
35	Is any related organization a controlled entity within the meaning of section 512(b)(13)? <i>If "Yes," complete Schedule R, Part V, line 2</i>	35		No
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		No
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		No
38	Did the organization complete Schedule O and provide explanations in Schedule O for Part VI, lines 11 and 19? Note. All Form 990 filers are required to complete Schedule O	38	Yes	

Part V

Statements Regarding Other IRS Filings and Tax Compliance

			Yes	No
1a	Enter the number reported in Box 3 of Form 1096, <i>Annual Summary and Transmittal of U.S. Information Returns</i> . Enter -0- if not applicable	1a37		
	b	Enter the number of Forms W-2G included in line 1a. Enter -0- if not applicable		
c Did the organization comply with backup withholding rules for reportable payments to vendors and reportable gaming (gambling) winnings to prize winners?			1c	Yes
2a	Enter the number of employees reported on Form W-3, <i>Transmittal of Wage and Tax Statements</i> filed for the calendar year ending with or within the year covered by this return	2a93		
	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 this return (see instructions)			
3a	Did the organization have unrelated business gross income of \$1,000 or more during the year covered by this return?		3a	No
b If "Yes," has it filed a Form 990-T for this year? If "No," provide an explanation in Schedule O			3b	
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)?		4a	No
b If "Yes," enter the name of the foreign country: See the instructions for exceptions and filing requirements for Form TD F 90-22.1, Report of Foreign Bank and Financial Accounts				
5a	Was the organization a party to a prohibited tax shelter transaction at any time during the tax year? . . .		5a	No
b Did any taxable party notify the organization that it was or is a party to a prohibited tax shelter transaction?			5b	No
c If "Yes" to line 5a or 5b, did the organization file Form 8886-T, Disclosure by Tax-Exempt Entity Regarding Prohibited Tax Shelter Transaction?			5c	
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?		6a	Yes
b If "Yes," did the organization include with every solicitation an express statement that such contributions or gifts were not tax deductible?			6b	No
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?			7a	Yes
b If "Yes," did the organization notify the donor of the value of the goods or services provided?			7b	Yes
c Did the organization sell, exchange, or otherwise dispose of tangible personal property for which it was required to file Form 8282?			7c	No
d If "Yes," indicate the number of Forms 8282 filed during the year			7d	
e Did the organization, during the year, receive any funds, directly or indirectly, to pay premiums on a personal benefit contract?			7e	No
f Did the organization, during the year, pay premiums, directly or indirectly, on a personal benefit contract? . . .			7f	No
g For all contributions of qualified intellectual property, did the organization file Form 8899 as required? . . .			7g	
h For contributions of cars, boats, airplanes, and other vehicles, did the organization file a Form 1098-C as required?			7h	
8 Sponsoring organizations maintaining donor advised funds and section 509(a)(3) supporting organizations. Did the supporting organization, or a donor advised fund maintained by a sponsoring organization, have excess business holdings at any time during the year?			8	
9 Sponsoring organizations maintaining donor advised funds.				
a Did the organization make any taxable distributions under section 4966?			9a	
b Did the organization make a distribution to a donor, donor advisor, or related person?			9b	
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	

Part VI

Governance, Management, and Disclosure

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

Section A. Governing Body and Management

		Yes	No
1a	Enter the number of voting members of the governing body . . .		
1b	Enter the number of voting members that are independent . . .		
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?		No
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? . . .		No
4	Did the organization make any significant changes to its organizational documents since the prior Form 990 was filed?		No
5	Did the organization become aware during the year of a material diversion of the organization's assets? . . .		No
6	Does the organization have members or stockholders?		No
7a	Does the organization have members, stockholders, or other persons who may elect one or more members of the governing body?		No
7b	Are any decisions of the governing body subject to approval by members, stockholders, or other persons? . . .		No
8	Did the organization contemporaneously document the meetings held or written actions undertaken during the year by the following		
8a	The governing body?		No
8b	Each committee with authority to act on behalf of the governing body?	Yes	
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		No

Section B. Policies

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

		Yes	No
10a	Does the organization have local chapters, branches, or affiliates?		No
10b	If "Yes," does the organization have written policies and procedures governing the activities of such chapters, affiliates, and branches to ensure their operations are consistent with those of the organization?		
11	Has the organization provided a copy of this Form 990 to all members of its governing body before filing the form?		No
11A	Describe in Schedule O the process, if any, used by the organization to review the Form 990		
12a	Does the organization have a written conflict of interest policy? If "No," go to line 13	Yes	
12b	Are officers, directors or trustees, and key employees required to disclose annually interests that could give rise to conflicts?	Yes	
12c	Does the organization regularly and consistently monitor and enforce compliance with the policy? If "Yes," describe in Schedule O how this is done	Yes	
13	Does the organization have a written whistleblower policy?	Yes	
14	Does the organization have a written document retention and destruction policy?	Yes	
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?		
15a	The organization's CEO, Executive Director, or top management official	Yes	
15b	Other officers or key employees of the organization		No
	If "Yes" to line a or b, 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?		No
16b	If "Yes," has the organization adopted a written policy or procedure requiring the organization to evaluate its participation in joint venture arrangements under applicable federal tax law, and taken steps to safeguard the organization's exempt status with respect to such arrangements?		

Section C. Disclosure

17	List the States with which a copy of this Form 990 is required to be filed▶AZ
18	Section 6104 requires an organization to make its Form 1023 (or 1024 if applicable), 990, and 990-T (501(c)(3)s only) available for public inspection. Indicate how you make these available. Check all that apply. ☐ Own website ☐ Another's website ☒ Upon request
19	Describe in Schedule O whether (and if so, how), the organization makes its governing documents, conflict of interest policy, and financial statements available to the public. See Additional Data Table.
20	State the name, physical address, and telephone number of the person who possesses the books and records of the organization ▶ Robin Melena Lowell Observatory 1400 W Mars Hill Road Flagstaff, AZ 860014470 (928) 774-3358

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

• 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

☐ Check this box if the organization did not compensate any current or former officer, director, trustee or key employee

[illegible]

Part VII

1b Total	530,927	0	52,805
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2 Total number of individuals (including but not limited to those listed in Item 1) who received or accrued more than \$100,000 in reportable compensation from the organization. 3

3 Did the organization list any **former** officer, director or trustee, key employee, or highest compensated employee on line 1a? If "Yes," complete Schedule J for such individual

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? *If "Yes," complete Schedule J for such individual*

5 Did any person listed on line 1a receive or accrue compensation from any unrelated organization for services rendered to the organization? *If "Yes," complete Schedule J for such person*

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

(A) Name and business address	(B) Description of services	(C) Compensation
General Dynamics SATCOM Technologies 1219 Digital Drive Richardson, TX 75081	Telescope mount, design and fabrication	5,172,704
Building Engineering Contractors Southwest Inc PO Box 30458 Flagstaff, AZ 860030458	Construction	4,806,912
Vacuum Technology Associates Inc Dynavac 110 Industrial Park Road Hingham, MA 02043	Optical coating system, design and manufacture	770,000
University of Arizona Sponsored Projects Services PO Box 3520 Tucson, AZ 857223520	Polish telescope mirror	474,008
Loven Contracting 1100 S Pinnacle St Flagstaff, AZ 86001	Construction	169,566

2 Total number of independent contractors (including but not limited to those listed above) who received more than \$100,000 in compensation from the organization ➤7

Part VIII

Statement of Revenue

				(A) Total revenue	(B) Related or exempt function revenue	(C) Unrelated business revenue	(D) Revenue excluded from tax under sections 512, 513, or 514			
Contributions, gifts, grants and other similar amounts	1a	Federated campaigns . . .	1a	0						
	b	Membership dues	1b	0						
	c	Fundraising events	1c	0						
	d	Related organizations	1d	9,100,000						
	e	Government grants (contributions)	1e	3,527,284						
	f	All other contributions, gifts, grants, and similar amounts not included above	1f	1,138,568						
	g	Noncash contributions included in lines 1a-1f \$ 196,268								
	h	Total. Add lines 1a-1f						13,765,852		
Program Service Revenue			Business Code							
	2a	Sponsor educational programs related to astronomy	611,600	348,729	348,729	0	0			
	b									
	c									
	d									
	e									
	f	All other program service revenue		0	0	0	0			
	g	Total. Add lines 2a-2f			348,729					
Other Revenue	3	Investment income (including dividends, interest and other similar amounts)								
				19,388	0	0	19,388			
	4	Income from investment of tax-exempt bond proceeds . .		0	0	0	0			
	5	Royalties		0	0	0	0			
	6a	(i) Real		(ii) Personal						
	b	Less rental expenses								
	c	Rental income or (loss)		0						
	d	Net rental income or (loss)								
	7a	(i) Securities		(ii) Other						
		58,784		0						
		58,083		0						
		701		0						
	d	Net gain or (loss)		701	0	0	701			
	8a	Gross income from fundraising events (not including \$ _____ of contributions reported on line 1c) See Part IV, line 18		a	0					
	b	Less direct expenses							b	
	c	Net income or (loss) from fundraising events . .								
	9a	Gross income from gaming activities See Part IV, line 19		a						
	b	Less direct expenses							b	
	c	Net income or (loss) from gaming activities . .								
10a	Gross sales of inventory, less returns and allowances		a	260,033						
b	Less cost of goods sold							b	152,334	
c	Net income or (loss) from sales of inventory . .								107,699	
Miscellaneous Revenue			Business Code							
11a	Telescope access		541,700	230,656	230,656	0	0			
b	Miscellaneous		900,099	38,272	0	0	38,272			
c										
d	All other revenue			0	0	0	0			
e	Total. Add lines 11a-11d			268,928						
12	Total revenue. See Instructions			14,511,297	687,084	0	58,361			

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) but are not required to complete columns (B), (C), and (D).

Do not include amounts reported on lines 6b, 7b, 8b, 9b, and 10b of Part VIII.		(A) Total expenses	(B) Program service expenses	(C) Management and general expenses	(D) Fundraising expenses
1	Grants and other assistance to governments and organizations in the U S See Part IV, line 21	0	0		
2	Grants and other assistance to individuals in the U S See Part IV, line 22	500	500		
3	Grants and other assistance to governments, organizations, and individuals outside the U S See Part IV, lines 15 and 16	0	0		
4	Benefits paid to or for members	0	0		
5	Compensation of current officers, directors, trustees, and key employees	241,604	16,386	220,792	4,426
6	Compensation not included above, to disqualified persons (as defined under section 4958(f)(1)) and persons described in section 4958(c)(3)(B)	0	0	0	0
7	Other salaries and wages	2,856,999	2,290,979	452,482	113,538
8	Pension plan contributions (include section 401(k) and section 403(b) employer contributions)	131,814	104,167	22,022	5,625
9	Other employee benefits	304,830	228,891	57,396	18,543
10	Payroll taxes	264,369	188,168	66,787	9,414
11	Fees for services (non-employees)				
a	Management	0	0	0	0
b	Legal	817	0	817	0
c	Accounting	27,000	0	27,000	0
d	Lobbying	0	0	0	0
e	Professional fundraising See Part IV, line 17	0			0
f	Investment management fees	0	0	0	0
g	Other	47,954	3,193	42,484	2,277
12	Advertising and promotion	57,605	50,158	2,823	4,624
13	Office expenses	238,425	192,454	37,334	8,637
14	Information technology	94,737	46,827	46,164	1,746
15	Royalties	0	0	0	0
16	Occupancy	376,712	303,611	70,503	2,598
17	Travel	133,821	113,164	17,404	3,253
18	Payments of travel or entertainment expenses for any federal, state, or local public officials	0	0	0	0
19	Conferences, conventions, and meetings	59,111	26,639	27,674	4,798
20	Interest	0	0	0	0
21	Payments to affiliates	0	0	0	0
22	Depreciation, depletion, and amortization	505,393	442,848	60,563	1,982
23	Insurance				
24	Other expenses Itemize expenses not covered above (Expenses grouped together and labeled miscellaneous may not exceed 5% of total expenses shown on line 25 below)				
a	Sub-contracts	294,189	294,189	0	0
b	Miscellaneous	18,633	6,720	-225	12,138
c					
d					
e					
f	All other expenses				
25	Total functional expenses. Add lines 1 through 24f	5,654,513	4,308,894	1,152,020	193,599
26	Joint costs. Check here ☐ if following SOP 98-2 Complete this line only if the organization reported in column (B) joint costs from a combined educational campaign and fundraising solicitation				

Part X

Balance Sheet

					(A)		(B)
					Beginning of year		End of year
Assets	1	Cash—non-interest-bearing			2,375	1	1,925
	2	Savings and temporary cash investments			1,125,379	2	1,504,648
	3	Pledges and grants receivable, net			6,325,156	3	4,362,369
	4	Accounts receivable, net				4	
	5	Receivables from current and former officers, directors, trustees, key employees, and highest compensated employees. Complete Part II of Schedule L				5	
	6	Receivables from other disqualified persons (as defined under section 4958(f)(1)) and persons described in section 4958(c)(3)(B). Complete Part II of Schedule L				6	
	7	Notes and loans receivable, net				7	
	8	Inventories for sale or use			92,231	8	81,200
	9	Prepaid expenses and deferred charges				9	
	10a	Land, buildings, and equipment, cost or other basis. Complete Part VI of Schedule D	10a	43,053,520			
	b	Less accumulated depreciation	10b	6,679,773	23,143,973	10c	36,373,747
	11	Investments—publicly traded securities			100,115	11	91,355
	12	Investments—other securities. See Part IV, line 11			914,255	12	1,930,457
	13	Investments—program-related. See Part IV, line 11				13	
	14	Intangible assets				14	
	15	Other assets. See Part IV, line 11			535,655	15	510,184
	16	Total assets. Add lines 1 through 15 (must equal line 34)			32,239,139	16	44,855,885
Liabilities	17	Accounts payable and accrued expenses			971,610	17	688,977
	18	Grants payable				18	
	19	Deferred revenue			572,369	19	443,727
	20	Tax-exempt bond liabilities				20	
	21	Escrow or custodial account liability. Complete Part IV of Schedule D				21	
	22	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	4,157,012
	24	Unsecured notes and loans payable to unrelated third parties				24	
	25	Other liabilities. Complete Part X of Schedule D				25	
	26	Total liabilities. Add lines 17 through 25			1,543,979	26	5,289,716
Net Assets or Fund Balances	Organizations that follow SFAS 117, check here ☒ and complete lines 27 through 29, and lines 33 and 34.						
	27	Unrestricted net assets			30,377,913	27	39,259,651
	28	Temporarily restricted net assets			199,091	28	158,258
	29	Permanently restricted net assets			118,156	29	148,260
	Organizations that do not follow SFAS 117, check here ☐ 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			30,695,160	33	39,566,169
	34	Total liabilities and net assets/fund balances			32,239,139	34	44,855,885

Part XI Financial Statements and Reporting

	Yes	No
1 Accounting method used to prepare the Form 990 ☐ Cash ☒ Accrual ☐ 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? . . .		No
b Were the organization's financial statements audited by an independent accountant?	Yes	
c If "Yes," to 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? If the organization changed either its oversight process or selection process during the tax year, explain in Schedule O	Yes	
d If "Yes" to line 2a or 2b, check a box below to indicate whether the financial statements for the year were issued on a consolidated basis, separate basis, or both ☐ Separate basis ☒ Consolidated basis ☐ Both consolidated and separated basis		
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?	Yes	
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 . . .	Yes	

SCHEDULE A

(Form 990 or 990EZ)

Department of the Treasury
Internal Revenue Service

Public Charity Status and Public Support

Complete if the organization is a section 501(c)(3) organization or a section 4947(a)(1) nonexempt charitable trust.

▶ Attach to Form 990 or Form 990-EZ. ▶ See separate instructions.

OMB No 1545-0047

2009

Open to Public
Inspection

Name of the organization LOWELL OBSERVATORY	Employer identification number 86-0098918
--	--

Part I

Reason for Public Charity Status (All organizations must complete this part.) See instructions

The organization is not a private foundation because it is (For lines 1 through 11, check only one box)

- 1

☐

A church, convention of churches, or association of churches **section 170(b)(1)(A)(i).**
- 2

☐

A school described in **section 170(b)(1)(A)(ii).** (Attach Schedule E)
- 3

☐

A hospital or a cooperative hospital service organization described in **section 170(b)(1)(A)(iii).**
- 4

☐

A medical research organization operated in conjunction with a hospital described in **section 170(b)(1)(A)(iii).** Enter the hospital's name, city, and state
- 5

☐

An organization operated for the benefit of a college or university owned or operated by a governmental unit described in **section 170(b)(1)(A)(iv).** (Complete Part II)
- 6

☐

A federal, state, or local government or governmental unit described in **section 170(b)(1)(A)(v).**
- 7

☒

An organization that normally receives a substantial part of its support from a governmental unit or from the general public described in **section 170(b)(1)(A)(vi)** (Complete Part II)
- 8

☐

A community trust described in **section 170(b)(1)(A)(vi)** (Complete Part II)
- 9

☐

An organization that normally receives (1) more than 33 1/3% of its support from contributions, membership fees, and gross receipts from activities related to its exempt functions—subject to certain exceptions, and (2) no more than 33 1/3% of its support from gross investment income and unrelated business taxable income (less section 511 tax) from businesses acquired by the organization after June 30, 1975 See **section 509(a)(2).** (Complete Part III)
- 10

☐

An organization organized and operated exclusively to test for public safety See**section 509(a)(4).**
- 11

☐

An organization organized and operated exclusively for the benefit of, to perform the functions of, or to carry out the purposes of one or more publicly supported organizations described in section 509(a)(1) or section 509(a)(2) See **section 509(a)(3).** Check the box that describes the type of supporting organization and complete lines 11e through 11h

a

☐

Type I

b

☐

Type II

c

☐

Type III - Functionally integrated

d

☐

Type III - Other
- e

☐

By checking this box, I certify that the organization is not controlled directly or indirectly by one or more disqualified persons other than foundation managers and other than one or more publicly supported organizations described in section 509(a)(1) or section 509(a)(2)
- f

☐

If the organization received a written determination from the IRS that it is a Type I, Type II or Type III supporting organization, check this box
- g

☐

Since August 17, 2006, has the organization accepted any gift or contribution from any of the following persons?

(i)

a person who directly or indirectly controls, either alone or together with persons described in (ii) and (iii) below, the governing body of the the supported organization?

(ii)

a family member of a person described in (i) above?

(iii)

a 35% controlled entity of a person described in (i) or (ii) above?
- h

☐

Provide the following information about the supported organization(s)

(i) Name of supported organization	(ii) EIN	(iii) Type of organization (described on lines 1- 9 above or IRC section (see instructions))	(iv) Is the organization in col (i) listed in your governing document?		(v) Did you notify the organization in col (i) of your support?		(vi) Is the organization in col (i) organized in the U S ?		(vii) Amount of support?
			Yes	No	Yes	No	Yes	No	
Total									

Part II

Support Schedule for Organizations Described in IRC 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.)

Section A. Public Support

Calendar year (or fiscal year beginning in)	(a) 2005	(b) 2006	(c) 2007	(d) 2008	(e) 2009	(f) Total
1 Gifts, grants, contributions, and membership fees received (Do not include any "unusual grants.")	6,412,661	7,859,744	9,441,036	6,362,543	13,665,852	43,741,836
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	98,000	100,000	100,000	100,000	100,000	498,000
4 Total. Add lines 1 through 3	6,510,661	7,959,744	9,541,036	6,462,543	13,765,852	44,239,836
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)						16,296,331
6 Public Support. Subtract line 5 from line 4						27,943,505

Section B. Total Support

Calendar year (or fiscal year beginning in)	(a) 2005	(b) 2006	(c) 2007	(d) 2008	(e) 2009	(f) Total
7 Amounts from line 4	6,510,661	128,269	9,541,036	6,462,543	13,765,852	44,239,836
8 Gross income from interest, dividends, payments received on securities loans, rents, royalties and income from similar sources	135,401	128,269	130,309	91,911	19,388	505,278
9 Net income from unrelated business activities, whether or not the business is regularly carried on						
10 Other income (Explain in Part IV) Do not include gain or loss from the sale of capital assets	304,513	309,620	183,333	100,650	268,928	1,167,044
11 Total support (Add lines 7 through 10)						45,912,158
12 Gross receipts from related activities, etc (See instructions)					12	2,964,262

13 First Five Years If the Form 990 is for the organization's first, second, third, fourth, or fifth tax year as a 501(c)(3) organization, check this box and stop here

☐

Section C. Computation of Public Support Percentage

14 Public Support Percentage for 2009 (line 6 column (f) divided by line 11 column (f))	14	60 863 %
15 Public Support Percentage for 2008 Schedule A, Part II, line 14	15	73 962 %

- 16a 33 1/3% support test—2009. 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
- ☒
- b 33 1/3% support test—2008. If the organization did not check the 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
- ☒
- 17a 10%-facts-and-circumstances test—2009. 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 IV how the organization meets the "facts and circumstances" test The organization qualifies as a publicly supported organization
- ☒
- b 10%-facts-and-circumstances test—2008. 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 IV how the organization meets the "facts and circumstances" test The organization qualifies as a publicly supported organization
- ☒
- 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
- ☒

Part IIISupport Schedule for Organizations Described in IRC 509(a)(2)
(Complete only if you checked the box on line 9 of Part I.)

Section A. Public Support

Calendar year (or fiscal year beginning in)	(a) 2005	(b) 2006	(c) 2007	(d) 2008	(e) 2009	(f) Total
1Gifts, grants, contributions, and membership fees received (Do not include any "unusual grants.")						
2Gross receipts from admissions, merchandise sold or services performed, or facilities furnished in any activity that is related to the organization's tax-exempt purpose						
3Gross receipts from activities that are not an unrelated trade or business under section 513						
4Tax revenues levied for the organization's benefit and either paid to or expended on its behalf						
5The value of services or facilities furnished by a governmental unit to the organization without charge						
6Total. Add lines 1 through 5						
7aAmounts included on lines 1, 2, and 3 received from disqualified persons						
bAmounts 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						
cAdd lines 7a and 7b						
8Public Support (Subtract line 7c from line 6)						

Section B. Total Support

Calendar year (or fiscal year beginning in)	(a) 2005	(b) 2006	(c) 2007	(d) 2008	(e) 2009	(f) Total
9Amounts from line 6						
10aGross income from interest, dividends, payments received on securities loans, rents, royalties and income from similar sources						
bUnrelated business taxable income (less section 511 taxes) from businesses acquired after June 30, 1975						
cAdd lines 10a and 10b						
11Net income from unrelated business activities not included in line 10b, whether or not the business is regularly carried on						
12Other income. Do not include gain or loss from the sale of capital assets (Explain in Part IV.)						
13Total support (Add lines 9, 10c, 11 and 12.)						
14First Five Years If the Form 990 is for the organization's first, second, third, fourth, or fifth tax year as a 501(c)(3) organization, check this box and stop here						

Section C. Computation of Public Support Percentage

15Public Support Percentage for 2009 (line 8 column (f) divided by line 13 column (f))	15	
16Public support percentage from 2008 Schedule A, Part III, line 15	16	

Section D. Computation of Investment Income Percentage

17Investment income percentage for 2009 (line 10c column (f) divided by line 13 column (f))	17	
18Investment income percentage from 2008 Schedule A, Part III, line 17	18	
19a33 1/3% support tests—2009. 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		
b33 1/3% support tests—2008. 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		
20Private Foundation If the organization did not check a box on line 14, 19a or 19b, check this box and see instructions		

Part IV

Supplemental Information. Supplemental Information. Complete this part to provide the explanation required by Part II, line 10; Part II, line 17a or 17b; or Part III, line 12. Provide any other additional information. See instructions

Explanation
Part II, Line 10 Other Income revenue primarily to cover expenses for telescope use by astronomers from other organizations 2009 increase is mainly due to additional organizations using our telescopes

SCHEDULE D
(Form 990)

Department of the Treasury
Internal Revenue Service

Supplemental Financial Statements

► Complete if the organization answered "Yes," to Form 990,
Part IV, line 6, 7, 8, 9, 10, 11, or 12.
► Attach to Form 990. ► See separate instructions.

OMB No 1545-0047

2009

Open to Public
Inspection

Name of the organization
LOWELL OBSERVATORY

Employer identification number
86-0098918

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

	(a) Donor advised funds	(b) Funds and other accounts
1	Total number at end of year	
2	Aggregate contributions to (during year)	
3	Aggregate grants from (during year)	
4	Aggregate value at end of year	
5	Did the organization inform all donors and donor advisors in writing that the assets held in donor advised funds are the organization's property, subject to the organization's exclusive legal control?	☐ Yes ☐ No
6	Did the organization inform all grantees, donors, and donor advisors in writing that grant funds may be used only for charitable purposes and not for the benefit of the donor or donor advisor, or for any other purpose conferring impermissible private benefit	☐ Yes ☐ No

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

1

Purpose(s) of conservation easements held by the organization (check all that apply)
☐ Preservation of land for public use (e g , recreation or pleasure) ☐ Preservation of an historically importantly land area
☐ Protection of natural habitat ☐ Preservation of a certified historic structure
☐ Preservation of open space

2

Complete lines 2a–2d if the organization held a qualified conservation contribution in the form of a conservation easement on the last day of the tax year

	Held at the End of the Year
a	Total number of conservation easements
b	Total acreage restricted by conservation easements
c	Number of conservation easements on a certified historic structure included in (a)
d	Number of conservation easements included in (c) acquired after 8/17/06

3

Number of conservation easements modified, transferred, released, extinguished, or terminated by the organization during the taxable year ► _____

4

Number of states where property subject to conservation easement is located ► _____

5

Does the organization have a written policy regarding the periodic monitoring, inspection, handling of violations, and enforcement of the conservation easements it holds? ☐ Yes ☐ No

6

Staff and volunteer hours devoted to monitoring, inspecting and enforcing conservation easements during the year ► _____

7

Amount of expenses incurred in monitoring, inspecting, and enforcing conservation easements during the year ► \$ _____

8

Does each conservation easement reported on line 2(d) above satisfy the requirements of section 170(h)(4)(B)(i) and 170(h)(4)(B)(ii)? ☐ Yes ☐ No

9

In Part XIV, describe how the organization reports conservation easements in its revenue and expense statement, and balance sheet, and include, if applicable, the text of the footnote to the organization’s financial statements that describes the organization’s accounting for conservation easements

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

1a

If the organization elected, as permitted under SFAS 116, not to report in its revenue statement and balance sheet works of art, historical treasures, or other similar assets held for public exhibition, education or research in furtherance of public service, provide, in Part XIV, the text of the footnote to its financial statements that describes these items

b

If the organization elected, as permitted under SFAS 116, to report in its revenue statement and balance sheet works of art, historical treasures, or other similar assets held for public exhibition, education, or research in furtherance of public service, provide the following amounts relating to these items

(i)	Revenues included in Form 990, Part VIII, line 1	► \$ _____ 0
(ii)	Assets included in Form 990, Part X	► \$ _____ 400,000

2

If the organization received or held works of art, historical treasures, or other similar assets for financial gain, provide the following amounts required to be reported under SFAS 116 relating to these items

a	Revenues included in Form 990, Part VIII, line 1	► \$ _____ 0
b	Assets included in Form 990, Part X	► \$ _____ 0

Part III

Organizations Maintaining Collections of Art, Historical Treasures, or Other Similar Assets (continued)

3

Using the organization's accession and other records, check any of the following that are a significant use of its collection items (check all that apply)

a

☒

Public exhibition

d

☐

Loan or exchange programs

b

☐

Scholarly research

e

☐

Other

c

☐

Preservation for future generations

4

Provide a description of the organization's collections and explain how they further the organization's exempt purpose in Part XIV

5

During the year, did the organization solicit or receive donations of art, historical treasures or other similar assets to be sold to raise funds rather than to be maintained as part of the organization's collection?

☐ Yes

☒ No

Part IV

Escrow and Custodial Arrangements. Complete if the organization answered "Yes" to Form 990, Part IV, line 9, or reported an amount on Form 990, Part X, line 21.

1a

Is the organization an agent, trustee, custodian or other intermediary for contributions or other assets not included on Form 990, Part X?

☐ Yes

☐ No

b

If "Yes," explain the arrangement in Part XIV and complete the following table

	Amount
1c	
1d	
1e	
1f	

c

Beginning balance

d

Additions during the year

e

Distributions during the year

f

Ending balance

2a

Did the organization include an amount on Form 990, Part X, line 21?

☐ Yes

☐ No

b

If "Yes," explain the arrangement in Part XIV

Part V

Endowment Funds. Complete if the organization answered "Yes" to Form 990, Part IV, line 10.

	(a)Current Year	(b)Prior Year	(c)Two Years Back	(d)Three Years Back	(e)Four Years Back
1a	Beginning of year balance	76,214	101,400		
b	Contributions	0	0		
c	Investment earnings or losses	15,142	-21,388		
d	Grants or scholarships	0	3,798		
e	Other expenditures for facilities and programs	0	0		
f	Administrative expenses	0	0		
g	End of year balance	91,356	76,214		

2

Provide the estimated percentage of the year end balance held as

a

Board designated or quasi-endowment ▶ 0 % %

b

Permanent endowment ▶ 66 % %

c

Term endowment ▶ 34 % %

3a

Are there endowment funds not in the possession of the organization that are held and administered for the organization by

(i)

unrelated organizations

3a(i)

No

(ii)

related organizations

3a(ii)

No

b

If "Yes" to 3a(ii), are the related organizations listed as required on Schedule R?

3b

4

Describe in Part XIV the intended uses of the organization's endowment funds

Part VI

Investments—Land, Buildings, and Equipment. See Form 990, Part X, line 10.

Description of investment	(a) Cost or other basis (investment)	(b)Cost or other basis (other)	(c) Accumulated depreciation	(d) Book value
1a Land	0	213,679		213,679
b Buildings	0	6,225,421	3,522,130	2,703,291
c Leasehold improvements	0	0	0	0
d Equipment	0	4,139,484	3,157,643	981,841
e Other	0	32,474,936	0	32,474,936
Total. Add lines 1a-1e (Column (d) should equal Form 990, Part X, column (B), line 10(c).)				36,373,747

Part XI

Reconciliation of Change in Net Assets from Form 990 to Financial Statements

1	Total revenue (Form 990, Part VIII, column (A), line 12)	1	
2	Total expenses (Form 990, Part IX, column (A), line 25)	2	
3	Excess or (deficit) for the year Subtract line 2 from line 1	3	
4	Net unrealized gains (losses) on investments	4	
5	Donated services and use of facilities	5	
6	Investment expenses	6	
7	Prior period adjustments	7	
8	Other (Describe in Part XIV)	8	
9	Total adjustments (net) Add lines 4 - 8	9	
10	Excess or (deficit) for the year per financial statements Combine lines 3 and 9	10	

Part XII

Reconciliation of Revenue per Audited Financial Statements With Revenue per Return

1	Total revenue, gains, and other support per audited financial statements	1	
2	Amounts included on line 1 but not on Form 990, Part VIII, line 12		
a	Net unrealized gains on investments	2a	
b	Donated services and use of facilities	2b	
c	Recoveries of prior year grants	2c	
d	Other (Describe in Part XIV)	2d	
e	Add lines 2a through 2d	2e	
3	Subtract line 2e from line 1	3	
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 XIV)	4b	
c	Add lines 4a and 4b	4c	
5	Total Revenue Add lines 3 and 4c. (This should equal Form 990, Part I, line 12)	5	

Part XIII

Reconciliation of Expenses per Audited Financial Statements With Expenses per Return

1	Total expenses and losses per audited financial statements	1	
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 XIV)	2d	
e	Add lines 2a through 2d	2e	
3	Subtract line 2e from line 1	3	
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 XIV)	4b	
c	Add lines 4a and 4b	4c	
5	Total expenses Add lines 3 and 4c. (This should equal Form 990, Part I, line 18)	5	

Part XIV

Supplemental Information

Complete this part to 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, Part XI, line 8, Part XII, lines 2d and 4b, and Part XIII, lines 2d and 4b. Also complete this part to provide any additional information.

Identifier	Return Reference	Explanation
SchD_P03_S00_L04	Schedule D, Part III, Line 4	The collection item consists of a vintage car, which was donated to the Observatory by the sole trustee during 2002. The car was capitalized based on its appraised value at the date of the unrestricted donation. The Observatory also holds various other collection items which are not capitalized. These items consist of various historical astronomical instruments and similar items which are held for educational, research and curatorial purposes. The items are held in a manner to be protected and preserved.
SchD_P05_S00_L04	Schedule D, Part V, Line 4	This endowment is used to fund summer internships for the Public Program.
SchD_P06_S00_L01e	Schedule D, Part VI, Line 1e	Other amount is Construction in Progress which relates primarily to the purchase and construction of telescopic equipment, which is estimated to cost approximately \$42 million. The project began in 2002 and certain phases of the project will be finished in 2010 with anticipated full completion of the project in 2011.

SCHEDULE M
(Form 990)

NonCash Contributions

OMB No 1545-0047

2009

Open to Public Inspection

►Complete if the organization answered "Yes" on Form 990, Part IV, lines 29 or 30.
► Attach to Form 990.

Name of the organization
LOWELL OBSERVATORY

Employer identification number
86-0098918

Part I

Types of Property

	(a) Check if applicable	(b) Number of Contributions	(c) Revenues reported on Form 990, Part VIII, line 1g	(d) Method of determining revenues
1 Art—Works of art				
2 Art—Historical treasures				
3 Art—Fractional interests				
4 Books and publications				
5 Clothing and household goods				
6 Cars and other vehicles				
7 Boats and planes				
8 Intellectual property				
9 Securities—Publicly traded	X	17	87,103	FMV
10 Securities—Closely held stock				
11 Securities—Partnership, LLC, or trust interests				
12 Securities—Miscellaneous				
13 Qualified conservation contribution—Historic structures				
14 Qualified conservation contribution—Other				
15 Real estate—Residential				
16 Real estate—Commercial				
17 Real estate—Other				
18 Collectibles				
19 Food inventory				
20 Drugs and medical supplies				
21 Taxidermy				
22 Historical artifacts				
23 Scientific specimens				
24 Archeological artifacts				
25 Other ► ()				
26 Other ► ()				
27 Other ► ()				
28 Other ► ()				

29 Number of Forms 8283 received by the organization during the tax year for contributions for which the organization completed Form 8283, Part IV, Donee Acknowledgement

290

30a During the year, did the organization receive by contribution any property reported in Part I, lines 1-28 that it must hold for at least three years from the date of the initial contribution, and which is not required to be used for exempt purposes for the entire holding period?

30aYesNoNo

b If "Yes," describe the arrangement in Part II

31 Does the organization have a gift acceptance policy that requires the review of any non-standard contributions?

31YesNoNo

32a Does the organization hire or use third parties or related organizations to solicit, process, or sell non-cash contributions?

32aYesNoNo

b If "Yes," describe in Part II

33 If the organization did not report revenues in column (c) for a type of property for which column (a) is checked, describe in Part II

Part II

Supplemental Information. Complete this part to provide the information required by Part I, lines 30b, 32b, and 33. Also complete this part for any additional information.

Identifier	Return Reference	Explanation
SchM_P01_S00_L33	Schedule M, Part I, Line 33	The Observatory receives various in-kind contributions which are not reported as revenue. These items consist of various historical astronomical instruments, books and similar items which are used for educational, research and curatorial purposes.

SCHEDULE O
(Form 990)

Department of the Treasury
Internal Revenue Service

Supplemental Information to Form 990

Complete to provide information for responses to specific questions on Form 990 or to provide any additional information.
▶ Attach to Form 990.

OMB No 1545-0047

2009

Open to Public Inspection

Name of the organization LOWELL OBSERVATORY	Employer identification number 86-0098918
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Identifier	Return Reference	Explanation
F990_P01_S00_L06	Form 990, Part I, Line 6	Personnel using the services of volunteers record dates and hours worked 5 volunteers for reception duties, 6 volunteers for archival/library dties, 8 volunteers from Teen Works worked in Public Program and did outdoor cleanup of grounds, 34 volunteers worked in Public Program as tour guides, 2 volunteers assisted with fundraising duties Total volunteers=55
F990_P06_S0A_L01a	Form 990, Part VI, Section A, Line 1a	Under the terms of the will of Percival Low ell, the Observatory is governed by a sole trustee
F990_P06_S0A_L08a	Form 990, Part VI, Section A, Line 8a	The sole trustee will record actions undertaken from time to time, as needed, to document changes in policies or employee benefits
F990_P06_S0B_L11	Form 990, Part VI, Section B, Line 11	The Secretary-Treasurer reviews the 990 for both the Trust and Low ell Observatory and signs the 990 for the Observatory The sole trustee signs the 990 for the Trust
F990_P06_S0B_L12c	Form 990, Part VI, Section B, Line 12c	Weekly review of payables includes consideration of potential conflicts of interest and follow up to enforce compliance with the company policy
F990_P06_S0B_L15	Form 990, Part VI, Section B, Line 15	The Director retired in June 2009 and while conducting the search for a replacement Director the Secretary-Treasurer did a search of 990s of similar institutions to compare salaries
F990_P06_S0C_L19	Form 990, Part VI, Section C, Line 19	Upon request to the Secretary-Treasurer the 990, governing documents, conflict of interest policy and financial statements are made available to the public A summary of the consolidated financial statement is published annually in our new sletter and mailed to donors
F990_P07_S0A_L02	Form 990, Part VII, Section A, Line 2	Personnel who prepare and review the 990 have full access to books and records of both Low ell Observatory and its only related organization, Percival Low ell Trust UW All Column F Other Compensation for all listed employees was earned from Low ell Observatory during the average hours per week reported in column B

Identifier	Return Reference	Explanation
SchR_P05_S00_L02	Schedule R, Part V, Line 2	Actual cash value is the method used to report the value of the loan guarantee and cash transferred from the Percival Low ell Trust UW The will of Percival Low ell was revised in 2007 to permit the trustee, in trustee's discretion, to distribute sufficient money from the trust, in an approximate amount of \$10,000,000 but no greater than \$12,000,000 as needed to enable the Low ell Observatory to complete construction of the Discovery Channel Telescope located at Happy Jack, Arizona In 2009, \$8,600,000 of the amount transferred from Percival Low ell Trust UW was for completion of the Telescope and up to \$12,000,000 of the trust investment portfolio has been pledged as collateral for the \$12,000,000 line of credit that provides additional financing for the completion of construction of the Telescope

Related Organizations and Unrelated Partnerships

OMB No 1545-0047

2009

Open to Public Inspection

Department of the Treasury
Internal Revenue Service

Name of the organization
LOWELL OBSERVATORY

Employer identification number

86-0098918

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

(a)	(b)	(c)	(d)	(e)	(f)
Name, address, and EIN of disregarded entity	Primary activity	Legal domicile (state or foreign country)	Total income	End-of-year assets	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
Percival Lowell Trust UW 1400 W Mars Hill Road Flagstaff, AZ 860014470 04-2007327	Trust F/B/O Lowell Observatory	AZ	4947(a)(1)		N/A

Part III

Identification of Related Organizations Taxable as a Partnership (Complete if the organization answered "Yes" on Form 990, Part IV, line 34 because it had one or more related organizations treated as a partnership during the tax year.)

(a) Name, address, and EIN of related organization	(b) Primary activity	(c) Legal domicile (state or foreign country)	(d) Direct controlling entity	(e) Predominant income (related, unrelated, excluded from tax under sections 512- 514)	(f) Share of total income	(g) Share of end-of-year assets	(h) Disproportionate allocations?		(i) Code V—UBI amount in box 20 of Schedule K-1 (Form 1065)	(j) General or managing partner?	
							Yes	No		Yes	No

Part IV

Identification of Related Organizations Taxable as a Corporation or Trust (Complete if the organization answered "Yes" on Form 990, Part IV, line 34 because it had one or more related organizations treated as a corporation or trust during the tax year.)

(a) Name, address, and EIN of related organization	(b) Primary activity	(c) Legal domicile (state or foreign country)	(d) Direct controlling entity	(e) Type of entity (C corp, S corp, or trust)	(f) Share of total income	(g) Share of end-of-year assets	(h) Percentage ownership
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Part V

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

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

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?

a

Receipt of (i) interest (ii) annuities (iii) royalties (iv) rent from a controlled entity

b

Gift, grant, or capital contribution to other organization(s)

c

Gift, grant, or capital contribution from other organization(s)

d

Loans or loan guarantees to or for other organization(s)

e

Loans or loan guarantees by other organization(s)

f

Sale of assets to other organization(s)

g

Purchase of assets from other organization(s)

h

Exchange of assets

i

Lease of facilities, equipment, or other assets to other organization(s)

j

Lease of facilities, equipment, or other assets from other organization(s)

k

Performance of services or membership or fundraising solicitations for other organization(s)

l

Performance of services or membership or fundraising solicitations by other organization(s)

m

Sharing of facilities, equipment, mailing lists, or other assets

n

Sharing of paid employees

o

Reimbursement paid to other organization for expenses

p

Reimbursement paid by other organization for expenses

q

Other transfer of cash or property to other organization(s)

r

Other transfer of cash or property from other organization(s)

1a

No

1b

No

1c

No

1d

No

1e

Yes

1f

No

1g

No

1h

No

1i

No

1j

No

1k

No

1l

No

1m

No

1n

No

1o

No

1p

Yes

1q

No

1r

Yes

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 other organization	(b) Transaction type(a-r)	(c) Amount involved
(1)	Percival Lowell Trust UW	e	12,000,000
(2)	Percival Lowell Trust UW	r	9,100,000
(3)			
(4)			
(5)			
(6)			

Schedule R (Form 990) 2009

Part VI **Unrelated Organizations Taxable as a Partnership** (Complete if the organization answered "Yes" on Form 990, Part IV, line 37.)

Provide the following information for each entity taxed as a partnership through which the organization conducted more than five percent of its activities (measured by total assets or gross revenue) that was not a related organization. See instructions regarding exclusion for certain investment partnerships.

(a) Name, address, and EIN of entity	(b) Primary activity	(c) Legal domicile (state or foreign country)	(d) Are all partners section 501(c)(3) organizations?		(e) Share of end-of-year assets	(f) Disproportionate allocations?		(g) Code V—UBI amount in box 20 of Schedule K-1 (Form 1065)	(h) General or managing partner?	
			Yes	No		Yes	No		Yes	No