

ATHEROGENICS INC  
Form 424B7  
December 13, 2005

**PROSPECTUS SUPPLEMENT No. 6**

**(To Prospectus dated July 25, 2005, as supplemented by Prospectus Supplement No. 1 dated August 18, 2005, Prospectus Supplement No. 2 dated September 20, 2005, Prospectus Supplement No. 3 dated October 7, 2005, Prospectus Supplement No. 4 dated November 1, 2005 and Prospectus Supplement No. 5 dated December 6, 2005)**

**ATHEROGENICS, INC.**

**\$200,000,000**

**1.50% CONVERTIBLE NOTES DUE 2012**

**AND**

**10,416,660 SHARES OF COMMON STOCK, NO PAR VALUE PER SHARE,  
ISSUABLE UPON CONVERSION OF THE NOTES**

This prospectus supplement supplements the prospectus dated July 25, 2005 of AtheroGenics, Inc., relating to the resale from time to time by selling securityholders of our 1.50% convertible notes due 2012 and shares of AtheroGenics, Inc. common stock issuable upon conversion of the notes. This prospectus supplement should be read in conjunction with the prospectus, which is required to be delivered with this prospectus supplement.

**Investing in the notes or our common stock involves a high degree of risk. See Risk Factors beginning on page 6 of the prospectus.**

**Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus supplement is truthful or complete. Any representation to the contrary is a criminal offense.**

The date of this prospectus supplement is December 13, 2005

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The section of the prospectus entitled "Selling Securityholders" is amended and restated in its entirety to read as follows:

### SELLING SECURITYHOLDERS

We originally sold the notes to initial purchasers on January 12, 2005. The initial purchasers of the notes have advised us that the notes were resold in transactions exempt from the registration requirements of the Securities Act to qualified institutional buyers, as defined in Rule 144A of the Securities Act. These subsequent purchasers, or their transferees, pledgees, donees, assignees or successors, may from time to time offer and sell any or all of the notes and/or shares of the common stock issuable upon conversion of the notes pursuant to this prospectus.

The following table sets forth information with respect to the selling securityholders and the principal amount of notes and common stock beneficially owned by each selling securityholder that may be offered pursuant to this prospectus. The information is based on information provided by or on behalf of the selling securityholders. The selling securityholders may offer all, some or none of the notes or the common stock issuable upon conversion of the notes. Because the selling securityholders may offer all or some portion of the notes or the common stock, we cannot estimate the amount or percentage of the notes or the common stock that will be held by the selling securityholders upon termination of sales pursuant to this prospectus. In addition, the selling securityholders identified below may have sold, transferred or otherwise disposed of all or a portion of their notes since the date on which they provided the information regarding their holdings in transactions exempt from the registration requirements of the Securities Act.

To our knowledge, no selling securityholder nor any of its affiliates has held any position or office with, been employed by or otherwise has had any material relationship with us or our affiliates within the past three years.

The percentage of notes outstanding beneficially owned by each selling securityholder is based on \$200,000,000 aggregate principal amount of notes outstanding. The number of shares of common stock issuable upon conversion of the notes shown in the table below assumes conversion of the full amount of notes held by each selling securityholder at the initial conversion rate of 38.5802 shares of common stock per \$1,000 principal amount of notes.

Name (1)	Principal Amount of Notes		Common Stock Owned After Completion of the Offering (3)
	Beneficially Owned and Offered Hereby (\$) (2)	Percentage of Notes Outstanding	
Alexandra Global Master Fund, Ltd.	3,500,000	1.75%	135,031
Aristeia International Limited (4)	13,860,000	6.93%	534,722
Aristeia Partners LP (6)	2,640,000	1.32%	101,852
BNP Paribas Equity Strategies, SNC (7)(8)	5,090,000	2.55%	202,226
Brooks Capital Group LLC (9)	100,000	*	3,858
CIBC World Markets (5)	500,000	*	19,290
Citigroup Global Markets Ltd. (5)	8,000,000	4.00%	308,642

Name (1)	Principal Amount of Notes		Common Stock Owned Prior to the Offering (2)(3)	Common Stock Owned After Completion of the Offering (3)
	Beneficially Owned and Offered Hereby (\$)	Percentage of Notes Outstanding		
CNH CA Master Account, L.P. (10)	250,000	*	368,185	358,540
CooperNeff Convertible Strategies (Cayman) Master Fund, LP (8)	1,866,000	*	71,991	
Deutsche Bank Securities Inc. (5)	7,126,000	3.56%	274,923	
DKR Saturn Event Driven Holding Fund Ltd. (11)	6,365,000	3.18%	245,563	
DKR Saturn Multi-Strategy Holding Fund Ltd. (12)	22,815,000	11.41%	885,407(13)	5,200(13)
DKR SoundShore Strategic Holding Fund Ltd. (14)	2,500,000	1.25%	96,451	
Drawbridge Convertible I Ltd. (15)	64,000	*	83,955	81,486
Drawbridge Convertible II Ltd. (15)	20,000	*	26,847	26,076
Drawbridge Global Macro Master Fund Ltd. (15)	1,666,000	*	282,658	218,383
Fore Convertible Master Fund, Ltd. (16)	4,000,000	2.00%	154,321	
Fore ERISA Fund, Ltd. (16)	2,000,000	1.00%	77,160	
Froley Revy Convertible Arbitrage Offshore (17)	350,000	*	13,503	
FrontPoint Convertible Arbitrage Fund, L.P. (18)	6,000,000	3.00%	231,481	
GLG Market Neutral Fund (19)	3,000,000	1.50%	115,741	
Guggenheim Portfolio Company VIII (Cayman), Ltd. (7)(20)	2,000,000	1.00%	77,160	
Highbridge International LLC (21)	21,500,000	10.75%	829,474	
ING Investors Trust ING T. Rowe Price Capital Appreciation Fund (7)(22)	830,000	*	32,022	
Jeffries & Company (5)(23)	250,000	*	9,645	
JP Morgan Securities Inc. (5)(24)	4,850,000	2.43%	193,246	6,132
Kamunting Street Master Fund, Ltd. (25)	7,100,000	3.55%	273,919	
KBC Financial Products USA Inc. (5)(26)	8,600,000	4.30%	331,790	
LDG Limited (27)	229,000	*	8,835	
Lehman Brothers Inc. (5)	5,100,000	2.55%	196,759	
Lyxor/Convertible Arbitrage Fund Limited (8)	848,000	*	32,716	
	2,936,000	1.47%	113,271	

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Man Convertible Bond Master Fund, Ltd. (28)				
Man Mac I Limited	3,000,000	1.50%	115,741	
MSS Convertible Arbitrage I (27)	48,000	*	2,830	978
Penn Series Funds, Inc. Flexibly Managed Fund (7)(22)	375,000	*	14,468	
Putnam Convertible Income-Growth Trust (7)	3,720,000	1.86%	143,518	
Saranac Capital Management L.P. (29)	15,000,000	7.50%	2,012,861	1,434,158
Satellite Convertible Arbitrage Master Fund, LLC (30)	7,000,000	3.50%	270,061	
Silverback Master, Ltd. (31)	13,500,000	6.75%	520,833	
Singlehedge US Convertible Arbitrage Fund (8)	745,000	*	28,742	
Sphinx Fund c/o TQA (27)	311,000	*	24,841	12,842
St. Thomas Trading, Ltd. (32)	1,064,000	*	41,049	
Sturgeon Limited (8)	876,000	*	33,796	
UBS O Connor LLC F/B/O O Connor Global Convertible Arbitrage Master Limited	3,000,000	1.50%	115,741	
T. Rowe Price Capital Appreciation Fund, Inc. (7)(22)	2,045,000	1.02%	78,897	
TQA Master Fund, Ltd. (27)	1,810,000	*	143,689	73,859
TQA Master Plus Fund, Ltd. (27)	3,201,000	1.60%	255,894	132,399
TQA Special Opportunities Master Fund Ltd. (33)	2,000,000	1.00%	77,160	
Tugar Capital, L.P. (34)	2,500,000	1.25%	96,451	
Vicis Capital Master Fund (35)	4,000,000	2.00%	154,321	
Wachovia Capital Markets LLC (5)(36)	3,000,000	1.50%	115,741	
Waterstone Market Neutral MAC51, Ltd. (37)	59,000	*	2,276	
Waterstone Market Neutral Master Fund, Ltd. (38)	941,000	*	36,304	
Xavex Convertible Arbitrage I (27)	26,000	*	16,714	15,711
Zurich Institutional Benchmark Master c/o TQA (27)	375,000	*	14,468	
Total**	200,000,000	100.00%	10,087,656	2,371,616

\* Less than one percent

\*\* The sum of the listed principal amount of notes beneficially owned by holders actually exceeds \$200,000,000 because certain of the holders

have transferred notes pursuant to Rule 144A or otherwise reduced their position prior to selling pursuant to this prospectus. As a result, we have received beneficial ownership information from additional holders without corresponding updates from the holders that sold notes to such additional holders. The maximum principal amount of notes that may be sold under this prospectus will not exceed \$200,000,000.

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- (1) Information about other selling securityholders, except for any future transferee, pledgee, donee, assignee or successor of securityholders named in the table above, will be set forth in a prospectus supplement or amendment to this registration statement if required. For purposes of this table, we have assumed that any other holders of notes, or any future transferees, pledgees, donees or successors of or from any such other holders of notes, do not beneficially own any common stock other than the common stock issuable upon conversion of the notes at the initial conversion rate.
  
- (2) Selling securityholders may have sold, transferred or otherwise disposed of all

or a portion of their notes, or acquired additional notes, since the date on which we were provided with the information regarding their notes in transactions exempt from the registration requirements of the Securities Act.

Accordingly, the information provided here for any particular securityholder may understate or overstate, as the case may be, such securityholder's current ownership. The aggregate principal amount of notes outstanding as of the date of this registration statement is \$200,000,000, and the selling securityholders will not sell under this registration statement more than that amount.

- (3) Includes common stock issuable upon conversion of the notes at the

initial  
conversion rate  
of 38.5802  
shares of  
common stock  
per \$1,000  
principal  
amount of notes.

However, this  
conversion rate  
will be subject  
to adjustment as  
described under

Description of  
Notes  
Conversion of  
Notes  
Conversion Rate  
Adjustments  
and Description  
of Notes Make  
Whole Payment  
Upon the  
Occurrence of a  
Designated  
Event that is  
also a  
Fundamental  
Change. As a  
result, the  
amount of  
common stock  
issuable upon  
conversion of  
the notes may  
increase or  
decrease in the  
future. Assumes  
conversion of  
the full amount  
of 4<sup>1</sup>/<sub>2</sub>% notes  
held by the  
selling  
securityholder at  
the initial  
conversion rate  
of 65.1890  
shares of  
common stock  
per \$1,000  
principal

amount of notes.

- (4) Aristeia Capital LLC is the investment manager for Aristeia International Limited. Aristeia Capital LLC is jointly owned by Robert H. Lynch Jr., Anthony Frascella, Bill Techar and Kevin Toner, who have voting or investment control over these securities.
- (5) The selling securityholder has informed us that it is a registered broker-dealer. See Plan of Distribution below.
- (6) Aristeia Advisors LLC is the investment manager for Aristeia Partners LP. Aristeia Advisors LLC is jointly owned by Robert H. Lynch Jr., Anthony Frascella, Bill Techar and Kevin Toner, who have voting or investment control over these securities.

- (7) The selling securityholder has informed us that it is an affiliate of a registered broker-dealer. See Plan of Distribution below.
- (8) Christian Menestrier, Chief Executive Officer of CooperNeff Advisors, Inc., has voting or investment control over these securities.
- (9) Brook Lenfest and William Luterman have voting or investment control over these securities.
- (10) CNH Partners, LLC is the investment advisor of the CNH CA Master Account, L.P. and has sole voting and dispositive power over these securities. Robert Krail, Mark Mitchell and Todd Pulvino exercise voting and investment control on behalf of CNH Partners, LLC.

(11) DKR Saturn Management Company L.P. is a registered investment adviser with the Securities and Exchange Commission and, as such, is the investment manager to DKR Saturn Event Driven Holding Fund Ltd. (the Saturn Fund ). Ron Phillips, portfolio manager of the Saturn Fund, has voting or investment control over these securities.

(12) DKR Saturn Management L.P. ( DKR Saturn ) is a registered investment adviser with the Securities and Exchange Commission and, as such, is the investment manager to DKR Saturn Multi-Strategy Fund Ltd. (the Multi-Strategy Fund ). As such, DKR Saturn and certain portfolio managers have shared dispositive and voting power

over securities held by the fund. Ron Phillips has voting or investment control over these securities. Mr. Phillips disclaims beneficial ownership of the securities.

- (13) Includes 5,200 shares of common stock subject to a call option.
  
- (14) DKR Capital Partners L.P. ( DKR LP ) is a registered investment adviser with the Securities and Exchange Commission and, as such, is the investment manager to DKR SoundShore Strategic Holding Fund Ltd. (the SoundShore Fund ). DKR LP has retained certain portfolio managers to act as the portfolio manager to the SoundShore Fund managed by DKR LP. As such, DKR LP and certain portfolio managers have

shared  
dispositive and  
voting power  
over securities  
held by the  
fund. Doug  
Teresko has  
voting or  
investment  
control over  
these securities.

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- (15) Kevin Treacy has voting or investment control over these securities.
  
- (16) David Egglshaw has voting or investment control over these securities.
  
- (17) Ann Houlihan has voting or investment control over these securities.
  
- (18) FrontPoint Convertible Arbitrage Fund GP LLC is the general partner of FrontPoint Convertible Arbitrage Fund, L.P. FrontPoint Partners LLC is the managing member of FrontPoint Convertible Arbitrage Fund GP, LLC and as such has voting and dispositive power over the securities held by the fund. Philip Duff, W. Gillespie Caffray and Paul Ghaffari are members of the board of managers of FrontPoint Partners LLC

and are the sole members of its management committee. Messrs. Duff, Caffray and Ghaffari and FrontPoint Partners LLC and FrontPoint Convertible Arbitrage Fund GP, LLC each disclaim beneficial ownership of the securities held by the fund except for their pecuniary interest therein.

- (19) GLG Market Neutral Fund (the Fund ) is a publicly owned company listed on the Irish Stock Exchange. GLG Partners LP, an English limited partnership, acts as the investment manager of the fund and has voting and dispositive power of the securities held by the Fund. The general partner of GLG Partners LP is GLG Partners Limited, an English limited company. The shareholders of GLG Partners

Limited are  
Noam  
Gottesman,  
Pierre Lagrange,  
Jonathan Green,  
Philippe Jabre  
and Lehman  
(Cayman)  
Limited, a  
subsidiary of  
Lehman  
Brothers, Inc., a  
publicly-held  
entity. GLG  
Partners LP,  
GLG Partners  
Limited, Noam  
Gottesman,  
Pierre Lagrange,  
Jonathan Green,  
Philippe Jabre  
and Lehman  
(Cayman)  
Limited  
disclaim  
beneficial  
ownership of  
the securities  
held by the  
Fund, except for  
their pecuniary  
interest therein.

(20) Matthew Li has  
voting or  
investment  
control over  
these securities.

(21) Highbridge  
Capital  
Management,  
LLC  
( Highbridge ) is  
the trading  
manager of  
Highbridge  
International  
LLC ( HIC ) and  
consequently  
has voting

control and investment discretion over securities held by HIC. Glenn Dubin and Henry Swieca control Highbridge. Each of Highbridge, Glenn Dubin and Henry Swieca disclaims beneficial ownership of the securities held by HIC.

- (22) T. Rowe Price Associates, Inc. ( T. Rowe Price Associates ) serves as investment adviser with power to direct investments and/or sole power to vote these securities. T. Rowe Price Associates disclaims beneficial ownership of these securities. T. Rowe Price Associates is a wholly-owned subsidiary of T. Rowe Price Group, Inc., which is a publicly-traded financial services holding company.

(23)

Jonathan  
Cunningham  
has voting or  
investment  
control over  
these securities.

(24) Charlotte Chui  
has voting or  
investment  
control over  
these securities.

(25) Allan Teh,  
managing  
member of  
Kamunting  
Street  
Management,  
LLC, the  
general partner  
of the  
investment  
manager of  
Kamunting  
Street Master  
Fund, Ltd., has  
voting or  
investment  
control over  
these securities.

(26) KBC Financial  
Products USA  
Inc. exercises  
voting and  
investment  
control over any  
shares of  
common stock  
issuable upon  
conversion of  
the notes held  
by the selling  
securityholder.  
Mr. Luke  
Edwards,  
Managing  
Director,  
exercises voting  
and investment

control on  
behalf of KBC  
Financial  
Products USA  
Inc.

(27) Robert Butman,  
George Esser,  
John Idone, Paul  
Bucci and  
Bartholomew  
Tesoriero have  
voting or  
investment  
control over  
these securities.

(28) John Null and  
J.T. Hansen,  
principals of  
Marin Capital  
Partners, LP,  
investment  
advisor to Man  
Convertible  
Bond Master  
Fund, Ltd. have  
voting or  
investment  
control over  
these securities.

(29) Ross Margolies  
has voting or  
investment  
control over  
these securities.  
Saranac Capital  
Management  
L.P. acts as  
discretionary  
investment  
advisor with  
respect to the  
following  
accounts that  
hold the  
indicated  
principal  
amounts of  
these securities:

Citigroup  
Alternative  
Investments  
Diversified  
Arbitrage  
Strategies Fund  
Ltd., 1,822,000;  
Citigroup  
Alternative  
Investments  
Enhanced  
Arbitrage  
Strategies Fund,  
539,000;  
Citigroup  
Alternative  
Investments QIP  
Multi Strategy  
Arbitrage  
Portfolio,  
8,868,000;  
Saranac Erisa  
Arbitrage LTD,  
3,355,000;  
Saranac Erisa  
Arbitrage LP,  
224,000; and  
Saranac  
Arbitrage LTD,  
192,000.

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- (30) Leif Rosenblatt,  
Mark Sonnino,  
Gabriel  
Nechamkin,  
Christopher  
Tuzzo, Brian  
Kriftcher,  
Stephen Shapiro  
and David Ford  
have voting or  
investment  
control over  
these securities.  
Each of these  
individuals  
disclaims  
beneficial  
ownership of  
the securities.
- (31) Elliot Bossen  
has voting or  
investment  
control over  
these securities.
- (32) John Null and  
J.T. Hansen,  
principals of  
Marin Capital  
Partners, LP,  
investment  
advisor to St.  
Thomas  
Trading, Ltd.,  
have voting or  
investment  
control over  
these securities.
- (33) Robert Butman,  
George Esser,  
John Idone, Paul  
Bucci and  
Bartholomew  
Tesoriero have  
voting or  
investment  
control over

these securities.

(34) Ken Tananbaum has voting or investment control over these securities.

(35) Sky Lucas, John Succo and Shad Stastney have voting or investment control over these securities.

(36) Eric Grant has voting or investment control over these securities.

(37) Shawn Bergerson, Chief Executive Officer of Waterstone Market Neutral MAC51, Ltd., has voting or investment control over these securities.

(38) Shawn Bergerson, Chief Executive Officer of Waterstone Market Neutral Master Fund, Ltd., has voting or investment control over these securities.