ATLAS VENTURE FUND V LP Form SC 13G February 09, 2005

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Estimated average	burden
hours per respons	se 11

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934

(AMENDMENT NO) *
Alnylam Pharmaceuticals, Inc.
(Name of Issuer)
Common Stock, \$0.01 par value
(Title of Class of Securities)
02043Q107
(CUSIP Number)
December 31, 2004
(Date of Event Which Requires Filing of this Statement)

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

- [ ] Rule 13d-1(b)
- [ ] Rule 13d-1(c)
- [X] Rule 13d-1(d)

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

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

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1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)						
	Atlas Venture Fund V, L.P.						
2	CHECK THE APPROPE	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)  (a) [ ]  (b) [ ]					
3	SEC USE ONLY						
4	CITIZENSHIP OR PI	LACE OF	FORGANIZATION				
	Delaware						
		5	SOLE VOTING POWER				
			0 shares				
T	NUMBER OF SHARES	6	SHARED VOTING POWER				
1	BENEFICIALLY OWNED BY EACH		2,006,195 shares				
	REPORTING PERSON	7	SOLE DISPOSITIVE POWER				
	WITH		0 shares				
		8	SHARED DISPOSITIVE POW	ŒR			
			2,006,195 shares				
9	AGGREGATE AMOUNT	BENEF	ICIALLY OWNED BY EACH RE	PORTING PERSON			
	2,006,195 shares						
10	CHECK BOX IF THE (SEE INSTRUCTIONS		GATE AMOUNT IN ROW (9) E		RES ]		
11	PERCENT OF CLASS	REPRES	SENTED BY AMOUNT IN ROW	9			
	9.99%						
12	TYPE OF REPORTING	F PERSO	ON (SEE INSTRUCTIONS)				
	PN						
			Page 2 of 20 pages				
CUSIP	NO. 02043Q107		13G	PAGE 3 OF 20	) PAGES		
	~						
1	NAMES OF REPORTING I.R.S. IDENTIFICA		SONS NOS. OF ABOVE PERSONS (E	NTITIES ONLY)			
	Atlas Venture Par	allel	Fund V-A, C.V.				
2	CHECK THE APPROPE	RIATE E	BOX IF A MEMBER OF A GRO	OUP (SEE INSTRUCTIONS (a) [ (b) [	]		

3	SEC USE ONLY				
4	CITIZENSHIP OR PI	LACE OF	F ORGANIZATION		
	Netherlands				
		5	SOLE VOTING POWER		
			0 shares		
	NUMBER OF SHARES	6	SHARED VOTING POWER		
	BENEFICIALLY OWNED BY		2,006,195 shares		
	EACH REPORTING	7	SOLE DISPOSITIVE POWER	₹	
	PERSON WITH		0 shares		
		8	SHARED DISPOSITIVE POV	√ER	
			2,006,195 shares		
9	AGGREGATE AMOUNT	BENEF	ICIALLY OWNED BY EACH RE	EPORTING PERSON	
	2,006,195 shares				
10	CHECK BOX IF THE (SEE INSTRUCTIONS		GATE AMOUNT IN ROW (9) F	EXCLUDES CERTAI	N SHARES
11	PERCENT OF CLASS	REPRES	SENTED BY AMOUNT IN ROW	9	
	9.99%				
12	TYPE OF REPORTING	G PERSO	ON (SEE INSTRUCTIONS)		
			Page 3 of 20 pages		
CUSIP	NO. 02043Q107		13G	PAGE 4 O	F 20 PAGES
1	NAMES OF REPORTIN		SONS NOS. OF ABOVE PERSONS (E	ENTITIES ONLY)	
	Atlas Venture Par	rallel	Fund V-B, C.V.		
2	CHECK THE APPROPE	RIATE E	BOX IF A MEMBER OF A GRO	OUP (SEE INSTRU	CTIONS) (a) [ ] (b) [ ]
3	SEC USE ONLY				
4	CITIZENSHIP OR PI	LACE OF	F ORGANIZATION		
	Netherlands				
		5	SOLE VOTING POWER		
	NUMBER OF		0 shares		

	SHARES	6	SHARED VOTING POWER	
	BENEFICIALLY OWNED BY		2,006,195 shares	
	EACH REPORTING	7	SOLE DISPOSITIVE POWER	
	PERSON WITH		0 shares	
		8	SHARED DISPOSITIVE POWER	
			2,006,195 shares	
9	AGGREGATE AMOUNT B	ENEFI(	CIALLY OWNED BY EACH REPO	ORTING PERSON
	2,006,195 shares			
10	CHECK BOX IF THE A	GGREG <i>I</i>	ATE AMOUNT IN ROW (9) EXC	LUDES CERTAIN SHARES
11	PERCENT OF CLASS R	EPRESI	ENTED BY AMOUNT IN ROW 9	
	9.99%			
12	TYPE OF REPORTING :	PERSON	N (SEE INSTRUCTIONS)	
			Page 4 of 20 pages	
CUSIP	NO. 02043Q107		13G	PAGE 5 OF 20 PAGES
1	NAMES OF REPORTING		ONS OS. OF ABOVE PERSONS (ENT	ITIES ONLY)
	Atlas Venture Entr	eprene	eurs' Fund V, L.P.	
2	CHECK THE APPROPRI	ATE BO	OX IF A MEMBER OF A GROUP	(SEE INSTRUCTIONS) (a) [ ] (b) [ ]
3	SEC USE ONLY			
4	CITIZENSHIP OR PLA	CE OF	ORGANIZATION	
	Delaware			
		5	SOLE VOTING POWER	
			0 shares	
	NUMBER OF SHARES	6	SHARED VOTING POWER	
	BENEFICIALLY OWNED BY		2,006,195 shares	
	EACH REPORTING	7	SOLE DISPOSITIVE POWER	
	PERSON WITH		0 shares	
		8	SHARED DISPOSITIVE POWER	
			2,006,195 shares	

9	AGGREGATE AMOUNT B	EFICIALLY OWNED BY EACH REPORTING PERSON					
	2,006,195 shares						
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)						
11	PERCENT OF CLASS R	RESENTED BY AMOUNT IN ROW 9					
	9.99%						
12	TYPE OF REPORTING :	RSON (SEE INSTRUCTIONS)					
		Page 5 of 20 pages					
CUSIP 1	NO. 02043Q107	13G PAGE 6 OF 20 PA	AGES				
1	NAMES OF REPORTING I.R.S. IDENTIFICAT	ERSONS N NOS. OF ABOVE PERSONS (ENTITIES ONLY)					
	Atlas Venture Fund	I, L.P.					
2	CHECK THE APPROPRIA	E BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)  (a) [ ]  (b) [ ]					
3	SEC USE ONLY						
4	CITIZENSHIP OR PLAC	OF ORGANIZATION					
	Delaware						
		SOLE VOTING POWER					
		0 shares					
	NUMBER OF SHARES	SHARED VOTING POWER					
Б.	ENEFICIALLY OWNED BY	2,006,195 shares					
1	EACH REPORTING	SOLE DISPOSITIVE POWER					
	PERSON WITH	0 shares					
		SHARED DISPOSITIVE POWER					
		2,006,195 shares					
9	AGGREGATE AMOUNT B	EFICIALLY OWNED BY EACH REPORTING PERSON					
	2,006,195 shares						
10	CHECK BOX IF THE AGE (SEE INSTRUCTIONS)	REGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES					
11	PERCENT OF CLASS R	RESENTED BY AMOUNT IN ROW 9					
	9.99%						

12 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)
PN

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NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Atlas Venture Entrepreneurs' Fund VI, L.P.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a) [ ]

(b) [ ]

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5 SOLE VOTING POWER

0 shares

NUMBER OF

SHARES 6 SHARED VOTING POWER

BENEFICIALLY

OWNED BY 2,006,195 shares

EACH

REPORTING 7 SOLE DISPOSITIVE POWER

PERSON

WITH 0 shares

8 SHARED DISPOSITIVE POWER

2,006,195 shares

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,006,195 shares

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

9.99%

12 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) PN

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1 NAMES OF REPORTING PERSONS

	I.R.S. IDENTIFICA	TION NOS. OF ABOVE PERSONS (ENTITIES ONLY)							
	Atlas Venture Fun	d VI GmbH & Co. KG.							
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)  (a) [ ]  (b) [ ]								
3	SEC USE ONLY								
4	CITIZENSHIP OR PL	ACE OF ORGANIZATION							
	Germany								
		5 SOLE VOTING POWER							
	NUMBER OF	0 shares							
	NUMBER OF SHARES	6 SHARED VOTING POWER							
	BENEFICIALLY OWNED BY EACH	2,006,195 shares							
	REPORTING PERSON	7 SOLE DISPOSITIVE POWER							
WITH		0 shares							
		8 SHARED DISPOSITIVE POWER							
		2,006,195 shares							
9	AGGREGATE AMOUNT	BENEFICIALLY OWNED BY EACH REPORTING PERSON							
	2,006,195 shares								
10	CHECK BOX IF THE (SEE INSTRUCTIONS	AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES [ ]							
11	PERCENT OF CLASS	REPRESENTED BY AMOUNT IN ROW 9							
	9.99%								
12	TYPE OF REPORTING PN	PERSON (SEE INSTRUCTIONS)							
		Page 8 of 20 pages							
CUSIE	P NO. 02043Q107	13G PAGE 9 OF 20 PAGES							
1	NAMES OF REPORTIN	G PERSONS TION NOS. OF ABOVE PERSONS (ENTITIES ONLY)							
	Atlas Venture Ass	ociates V, L.P.							
2	CHECK THE APPROPR	IATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)  (a) [ ]  (b) [ ]							
3	SEC USE ONLY								

CITIZENSHIP OR PLACE OF ORGANIZATION

	Delaware					
		5	SOLE VOTING POWER			
			0 shares			
	NUMBER OF SHARES	6	SHARED VOTING POWER			
Bl	ENEFICIALLY OWNED BY		2,006,195 shares			
1	EACH REPORTING	7	SOLE DISPOSITIVE POWER			
	PERSON WITH		0 shares			
		8	SHARED DISPOSITIVE POWER			
			2,006,195 shares			
9	AGGREGATE AMOUNT E	BENEFI	CIALLY OWNED BY EACH REPORTING PERSON			
	2,006,195 shares					
10	CHECK BOX IF THE A		TATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS F	REPRES	SENTED BY AMOUNT IN ROW 9			
	9.99%					
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) PN					
			Page 9 of 20 pages			
CUSIP 1	NO. 02043Q107		13G PAGE 10 OF 20 PAGES			
1	NAMES OF REPORTING		ONS OS. OF ABOVE PERSONS (ENTITIES ONLY)			
	Atlas Venture Asso	ociate	es VI, L.P.			
2	CHECK THE APPROPRI	IATE B	OX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)  (a) [ ]  (b) [ ]			
3	SEC USE ONLY					
4	CITIZENSHIP OR PLA	ACE OF	ORGANIZATION			
	Delaware					
		5	SOLE VOTING POWER			
_	WWDED OF		0 shares			
	NUMBER OF SHARES	6	SHARED VOTING POWER			
В	ENEFICIALLY OWNED BY EACH		2,006,195 shares			

F	REPORTING PERSON	7	SOLE DISPOSITIVE POWER				
	WITH		0 shares				
		8	SHARED DISPOSITIVE POWER				
			2,006,195 shares				
9	AGGREGATE AMOUNT	BENEF	ICIALLY OWNED BY EACH REPORTING PERSON				
	2,006,195 shares						
10	CHECK BOX IF THE (SEE INSTRUCTIONS		GATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS	REPRES	SENTED BY AMOUNT IN ROW 9				
	9.99%						
	TYPE OF REPORTING PN	PERSO	ON (SEE INSTRUCTIONS)				
			Page 10 of 20 pages				
CUSIP N	IO. 02043Q107		13G PAGE 11 OF 20 PAGES				
1	1 NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)						
	Atlas Venture Ass	ociate	es V, Inc.				
2	CHECK THE APPROPR	IATE F	BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)  (a) [ ]  (b) [ ]				
3	SEC USE ONLY						
4	CITIZENSHIP OR PL	ACE OF	FORGANIZATION				
	Delaware						
		5	SOLE VOTING POWER				
			0 shares				
N	IUMBER OF SHARES	6	SHARED VOTING POWER				
BE	CNEFICIALLY OWNED BY		2,006,195 shares				
F	EACH REPORTING	7	SOLE DISPOSITIVE POWER				
	PERSON WITH		0 shares				
		8	SHARED DISPOSITIVE POWER				
			2,006,195 shares				

2,006,195 shares

10	CHECK BOX IF THE A		TATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES					
11	PERCENT OF CLASS F	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9						
	9.99%	9.99%						
12	TYPE OF REPORTING	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)						
			Page 11 of 20 pages					
CUSIP	NO. 02043Q107		13G PAGE 12 OF 20 PAGES					
1	NAMES OF REPORTING		ONS OS. OF ABOVE PERSONS (ENTITIES ONLY)					
	Atlas Venture Asso	ciate	es VI, Inc.					
2	CHECK THE APPROPRI	ATE B	OX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)  (a) [ ]  (b) [ ]					
3	SEC USE ONLY							
4	CITIZENSHIP OR PLA	CE OF	ORGANIZATION					
	Delaware							
		5	SOLE VOTING POWER					
	NUMBER OF		0 shares					
	NUMBER OF SHARES	6	SHARED VOTING POWER					
1	BENEFICIALLY OWNED BY		2,006,195 shares					
	EACH REPORTING	7	SOLE DISPOSITIVE POWER					
	PERSON WITH		0 shares					
		8	SHARED DISPOSITIVE POWER					
			2,006,195 shares					
9	AGGREGATE AMOUNT E	BENEFI	CIALLY OWNED BY EACH REPORTING PERSON					
	2,006,195 shares							
10	CHECK BOX IF THE A		TATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES					
11	PERCENT OF CLASS F	REPRES	ENTED BY AMOUNT IN ROW 9					
	9.99%							
12	TYPE OF REPORTING	PERSO	N (SEE INSTRUCTIONS)					

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CUSIP	NO. 02043Q107		13G	PAGE	13	OF	20	PAGES	
1	NAMES OF REPORTING PERSONS  I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)								
	Axel Bichara								
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)  (a) [ ]  (b) [ ]								
3	SEC USE ONLY								
4	CITIZENSHIP OR PLA	CE OF ORG	ANIZATION						
	Germany								
		5 SOLE	E VOTING POWER						
		0 sł	nares						
	NUMBER OF SHARES	6 SHA	RED VOTING POWE	⊆R					
Е	BENEFICIALLY OWNED BY	2,00	06,195 shares						
	EACH REPORTING	7 SOLE	E DISPOSITIVE E	POWER					
	PERSON WITH	0 sł	nares						
		8 SHAE	RED DISPOSITIVE	E POWER					
		2,00	06,195 shares						
9	AGGREGATE AMOUNT E	BENEFICIALI	LY OWNED BY EAC	CH REPORTING	PERS	ON			
	2,006,195 shares								
10	CHECK BOX IF THE A		AMOUNT IN ROW	(9) EXCLUDES	CERT	'AIN S	HARE	S	
11	PERCENT OF CLASS F	REPRESENTEI	D BY AMOUNT IN	ROW 9					
	9.99%								
12	TYPE OF REPORTING IN	PERSON (SE	EE INSTRUCTIONS	5)					
		Page	13 of 20 pages	5					
CUSIP	NO. 02043Q107		13G	PAGE	14	OF	20	PAGES	
	OF REPORTING PERSON		E PERSONS (ENT)	ITIES ONLY)					

Jean-Francois Formela

CHECK THE APPROPRIATE BOX	IF A	MEMBER OF A GROUP	(SEE INSTRU	ICTION	(a)	[ ]	
SEC USE ONLY							
CITIZENSHIP OR PLACE OF O	RGANI	ZATION					
France							
	5	SOLE VOTING POWER					
NUMBER OF		0 shares					
NUMBER OF SHARES	6	SHARED VOTING POWE	l'R				
BENEFICIALLY OWNED BY		2,006,195 shares					
EACH REPORTING PERSON	7	SOLE DISPOSITIVE F	OWER				
WITH		0 shares					
	8	SHARED DISPOSITIVE	POWER				
		2,006,195 shares					
AGGREGATE AMOUNT BENEFICI	ALLY	OWNED BY EACH REPOR	TING PERSON	I			
2,006,195 shares							
CHECK BOX IF THE AGGREGAT (SEE INSTRUCTIONS)	E AMO	UNT IN ROW (9) EXCI	UDES CERTAI	N SHA	ARES	[ ]	
PERCENT OF CLASS REPRESEN	TED B	Y AMOUNT IN ROW 9					
9.99%							
TYPE OF REPORTING PERSON IN	(SEE	INSTRUCTIONS)					
		Page 14 of 20 pages	5				
CUSIP NO. 02043Q107		13G	PAGE	15	OF	20	PAGES
NAMES OF REPORTING PERSON I.R.S. IDENTIFICATION NOS	-	ABOVE PERSONS (ENTI	TIES ONLY)				
Christopher Spray							
CHECK THE APPROPRIATE BOX	IF A	MEMBER OF A GROUP	(SEE INSTRU	CTION	(a)	[ ]	
SEC USE ONLY						-	
CITIZENSHIP OR PLACE OF O	RGANI	ZATION					
United Kingdom							

5 SOLE VOTING POWER

0 shares

NUMBER OF

SHARES 6 SHARED VOTING POWER

BENEFICIALLY

OWNED BY 2,006,195 shares

EACH

REPORTING 7 SOLE DISPOSITIVE POWER

PERSON

WITH 0 shares

8 SHARED DISPOSITIVE POWER

2,006,195 shares

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,006,195 shares

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

[ ]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

9.99%

TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

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Schedule 13G

Item 1(a). Name of Issuer: Alnylam Pharmaceuticals, Inc.

Item 1(b). Address of Issuer's Principal Executive Offices:

300 Third Street, Cambridge, MA 02142

Item 2(a). Name of Person Filing:

Atlas Venture Fund V, L.P. ("Atlas V"), Atlas Venture Fund V-A, C.V. ("Atlas V-A"), Atlas Venture Fund V-B, C.V. ("Atlas V-B"), Atlas Venture Entrepreneurs' Fund V, L.P. ("AVE V" and together with Atlas V, Atlas V-A and Atlas V-B, the "Atlas V Funds"), Atlas Venture Fund VI, L.P. ("Atlas VI"), Atlas Venture Fund VI GmbH & Co. KG ("Atlas VI GmbH"), Atlas Venture Entrepreneurs' Fund VI, L.P. ("AVE VI"), Atlas Venture Associates V, L.P. ("AVA V LP"), Atlas Venture Associates VI, L.P. ("AVA VI LP"), Atlas Venture Associates V, Inc. ("AVA V Inc."), Atlas Venture Associates VI, Inc. ("AVA VI Inc."), Axel Bichara ("Bichara"), Jean-Francois Formela ("Formela") and Christopher Spray ("Spray"). Atlas V, Atlas V-A, Atlas V-B, AVE V, Atlas VI, Atlas VI GmbH and AVE VI are referred to individually herein as a "Fund" and collectively as the "Funds". The persons and entities named in this Item 2(a) are referred to individually herein as a "Filing Person" and collectively as the "Filing Persons".

AVA V Inc. is the sole general partner of AVA V LP. AVA V LP is the sole general partner of the Atlas V Funds. Messrs.

Bichara, Formela and Spray are directors of AVA V Inc.

AVA VI Inc. is the sole general partner of AVA VI LP. AVA VI LP is the sole general partner of Atlas VI and AVE VI and the managing limited partner of Atlas VI GmbH. Messrs. Bichara, Formela and Spray are directors of AVA VI Inc.

Item 2(b). Address of Principal Business Office or, if None, Residence:

The principal business office of each of the Filing Persons is:

890 Winter Street, Suite 320 Waltham, MA 02451

- Item 2(c). Citizenship: Atlas V, AVE V, Atlas VI, AVE VI, AVA V LP and AVA VI LP is each a limited partnership formed under the laws of the state of Delaware. AVA V Inc. and AVA VI Inc. is each a corporation formed under the laws of the state of Delaware. Atlas V-A and Atlas V-B is each a limited partnership formed under the laws of The Netherlands. Atlas VI GmbH is a limited partnership formed under the laws of Germany. Mr. Bichara is a citizen of Germany. Mr. Formela is a citizen of France. Mr. Spray is a citizen of the United Kingdom.
- Item 2(d). Title of Class of Securities: Common Stock, \$0.01 par value
   per share (the "Common Stock").
- Item 2(e). CUSIP Number: 02043Q107

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Item 3. If This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:

Not Applicable.

- Item 4. Ownership.
- Amount Beneficially Owned: Atlas V is the record holder of (a) 634,331 shares of Common Stock as of December 31, 2004 (the "Atlas V Shares"). Atlas V-A is the record holder of 78,794 shares of Common Stock as of December 31, 2004 (the "Atlas V-A Shares"). Atlas V-B is the record holder of 78,794 shares of Common Stock as of December 31, 2004 (the "Atlas V-B Shares"). AVE V is the record holder of 10,557 shares of Common Stock as of December 31, 2004 (the "AVE V Shares"). Atlas VI is the record holder of 1,151,536 shares of Common Stock as of December 31, 2004 (the "Atlas VI Shares"). Atlas VI GmbH is the record holder of 21,085 shares of Common Stock as of December 31, 2004 (the "Atlas VI GmbH Shares"). AVE VI is the record holder of 31,098 shares of Common Stock as of December 31, 2004 (the "AVE VI Shares"). By virtue of their relationship as affiliated limited partnerships, each Fund may be deemed to share the power to direct the disposition and vote the Atlas V Shares, the Atlas V-A Shares, the Atlas V-B Shares, the AVE V Shares, the Atlas VI Shares, the Atlas VI GmbH Shares and the AVE VI Shares, for an aggregate of 2,006,195 shares of Common Stock (the "Record Shares"). As general partner or managing limited partner, as the case may be, of certain of the Funds, and by virtue of the Funds

relationship as affiliated limited partnerships, each of AVA V LP and AVA VI LP may also be deemed to beneficially own the Record Shares. As the general partner of AVA V LP and AVA VI LP respectively, AVA V Inc. and AVA VI Inc. may also be deemed to beneficially own the Record Shares. In their capacities as directors of AVA V Inc. and AVA VI Inc. each of Messrs. Bichara, Formela and Spray may be deemed to beneficially own the Record Shares.

Each Filing Person disclaims beneficial ownership of the Record Shares except for such shares, if any, such Filing Person holds of record.

(b) Percent of Class:

Each Filing Person: 9.99%

- (c) Number of shares as to which the person has:
  - (i) sole power to vote or to direct the vote:

0

(ii) shared power to vote or to direct the vote:

2,006,195 for each Filing Person

(iii) sole power to dispose or direct the disposition of:

0

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- (iv) shared power to dispose or direct the disposition of:
  - 2,006,195 for each Filing Person
- Item 5. Ownership of Five Percent or Less of a Class.

Not Applicable.

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

Not Applicable.

Item 7. Identification and Classification of the Subsidiary which Acquired the Security Being Reported on By the Parent Holding Company.

Not Applicable.

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

Not Applicable. The Filing Persons expressly disclaim membership in a "group" as used in Rule 13d-5 (b) (1).

Item 9. Notice of Dissolution of Group.

Not Applicable.

Item 10. Certification.

Not Applicable. This statement on Schedule 13G is not filed pursuant to Rule 13d-1(b) or Rule 13d-1(c).

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#### SIGNATURE

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

Dated: February 9, 2005

		*			
Axel Bi	chara				
		*			
Jean-Fr	ancois F	ormela			
		*			
Christo	pher Spr	ay			
Atlas V By: At their g By: At	las Vent eneral p	Intrepa ture Assartnea ture Ass	ceneurs' ssociates	VI,	L.P.
By:		*			
Name:	Jeanne I	arkin	Henry		
Title:	Vice-Pre	sident	: :		
By: At its man By: At	las Vent aging li	ure As mited ture As	[ GmbH & ssociates partner ssociates	VI,	L.P.
Ву:		*			
Name:	Jeanne I	arkin	Henry		
Title:	Vice-Pre	sident	;		

Atlas Venture Associates VI, L.P. By: Atlas Venture Associates VI, Inc. its general partner

	By:		*
	Name:	Jeanne	Larkin Henry
	Title:	Vice-Pr	resident
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	Atlas '	Venture	Associates VI, Inc.
	Ву:		*
	Name:	Jeanne	Larkin Henry
	Title:	Vice-Pr	resident 
	Atlas	Venture Venture Venture tlas Ver general	Fund V, L.P. Entrepreneurs' Fund V, L.P. Parallel Fund V-A, C.V. Parallel Fund V-B, C.V. ature Associates V, L.P. partner ature Associates V, Inc. artner
	Ву:		*
	Name:	Jeanne	Larkin Henry
	Title:	Vice-Pr	resident
	By: A		Associates V, L.P. uture Associates V, Inc. artner
	Ву:		*
	Name:	Jeanne	Larkin Henry
	Title:	Vice-Pr	resident
	Atlas '	Venture	Associates V, Inc.
	Ву:		*
	Name:	Jeanne	Larkin Henry
	Title:	Vice-Pr	resident

\* By: /s/ Jeanne Larkin Henry

By Jeanne Larkin Henry in her

individual capacity and as Attorney-in-Fact

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Exhibit 1

#### AGREEMENT

Pursuant to Rule 13d-1(k) (1) under the Securities and Exchange Act of 1934, each of the undersigned hereby agree that only one statement containing the information required by Schedule 13G need be filed with respect to the ownership by each of the undersigned of shares of stock of Alnylam Pharmaceuticals, Inc. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original.

Dated: February 9, 2005

	*
Axel Bi	chara
	*
Jean-Fr	ancois Formela
	*
Christo	ppher Spray
Atlas V By: At their g By: At	Venture Fund VI, L.P. Venture Entrepreneurs' Fund VI, L.P. Llas Venture Associates VI, L.P. General partner Llas Venture Associates VI, Inc. Geral partner
Ву:	*
Name:	Jeanne Larkin Henry
Title:	Vice-President
By: At its man By: At	Venture Fund VI GmbH & Co. KG las Venture Associates VI, L.P. maging limited partner las Venture Associates VI, Inc. meral partner
Ву:	*
Name:	Jeanne Larkin Henry
Title:	Vice-President

Atlas Venture Associates VI, L.P.

Ву:	*
Name:	Jeanne Larkin Henry
Title:	Vice-President
Atlas	Venture Associates VI, Inc.
Ву:	*
Name:	Jeanne Larkin Henry
Title:	Vice-President
Atlas Atlas Atlas By: A their By: A	Venture Fund V, L.P. Venture Entrepreneurs' Fund V, Venture Parallel Fund V-A, C.V Venture Parallel Fund V-B, C.V tlas Venture Associates V, L.P general partner tlas Venture Associates V, Inc neral partner
Ву:	*
Name:	Jeanne Larkin Henry
Title:	Vice-President
By: A	Venture Associates V, L.P. tlas Venture Associates V, Inc neral partner
Ву:	*
Name:	Jeanne Larkin Henry
Title:	Vice-President
Atlas	Venture Associates V, Inc.
Ву:	*
Name:	Jeanne Larkin Henry
Ti+10.	Vice-President

\* By: /s/ Jeanne Larkin Henry

By Jeanne Larkin Henry in her

individual capacity and as
Attorney-in-Fact

Exhibit 2

#### POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that each person whose signature appears below hereby constitutes and appoints each and any of Christopher J. Spray and Jeanne Larkin Henry his true and lawful attorney-in-fact and agent, with full power of substitution and re-substitution, for him and in his name, place and stead, in any and all capacities (until revoked in writing) to sign any and all instruments, certificates and documents required to be executed on behalf of himself individually or on behalf of each or any of Atlas Venture Fund II, L.P., Atlas Venture Associates II, L.P., Atlas Venture Fund III, L.P., Atlas Venture Entrepreneurs' Fund III, L.P., Atlas Venture Associates III, L.P., Atlas Venture Associates III, Inc., Atlas Venture Fund IV, L.P., Atlas Venture Entrepreneurs' Fund IV, L.P., Atlas Venture Parallel Fund IV-A, C.V., Atlas Venture Parallel Fund IV-B, C.V., Atlas Venture Associates IV, L.P., Atlas Venture Associates IV, Inc., Atlas Venture Fund V, L.P., Atlas Venture Entrepreneurs' Fund V, L.P., Atlas Venture Parallel Fund V-A, C.V., Atlas Venture Parallel Fund V-B, C.V., Atlas Venture Associates V, L.P., Atlas Venture Associates V, Inc., Atlas Venture Fund VI, L.P., Atlas Venture Entrepreneurs' Fund VI, L.P., Atlas Venture Fund VI GmbH & Co. KG, Atlas Venture Associates VI, L.P. and Atlas Venture Associates VI, Inc. pursuant to sections 13 and 16 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and any and all regulations promulgated thereunder, and to file the same, with all exhibits thereto, and any other documents in connection therewith, with the Securities and Exchange Commission, and with any other entity when and if such is mandated by the Exchange Act or by the By-laws of the National Association of Securities Dealers, granting unto said attorney-in-fact and agent full power and authority to do and perform each and every act and thing requisite and necessary fully to all intents and purposes as he might or could do in person thereby ratifying and confirming all that said attorney-in-fact and agent, or his substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, this Power of Attorney has been signed as of the  $8 \, \mathrm{th}$  day of February, 2005.