Account Numb	er				
o be retair	ed by	NFS	_	_	

Margin Account Privileges Supplemental Application for NFS

Use this form to apply for margin trading on an existing brokerage account. Complete all pages of this form and sign the Disclosure of Credit Terms. In order for your application to be considered, you must return the Disclosure of Credit Terms marked NFS copy and keep the customer copy. Type on screen or print out and fill in using CAPITAL letters and black ink. If you need more room for information or signatures, use a copy of the relevant page or a blank sheet.

1. Account Owner(s)

1	Account Owner Name
2	Additional Owner, Company or Trust Name
2	Additional Account Owner Name
3	
4	Additional Account Owner Name

Check here if applying for margin on a Transfer on Death (TOD) Account

2. Acknowledgements

Check all that apply
if you are a control
person or affiliate or
an immediate family/
household member
of a control person or
affiliate of a publicly
traded company under
SEC Rule 144 (this
would include, but is
not limited to, a direc-
tor, 10% shareholder,
policy-making officer,
and members of the
board of directors).

Account Owner 1	Company Name	CUSIP or Symbol
Account Owner 2	Company Name	CUSIP or Symbol
Account Owner 3	Company Name	CUSIP or Symbol
Account Owner 4	Company Name	CUSIP or Symbol

For Internal Use Only						
Print Approval Name	Signature	Date MM - DD - YYYY				
Print Registered Representative Name	Signature	Date MM - DD - YYYY				

Note to Broker/Dealer: Return pages 1-4 and the signed portion of the Disclosure of Credit Terms which is marked "NFS Copy"

National Financial Services LLC, Member NYSE, SIPC

Margin Account Agreement NFS Copy

To: Introducing Broker/Dealer: (My "Broker/Dealer") and National Financial Services LLC ("NFS" or "you")

Broker/Dealer

- 1. I agree as follows with respect to all of my brokerage accounts, in which I have an interest alone or with others, which I have opened or will open in the future, with you through my Broker/Dealer for the purchase and sale of securities. I hereby acknowledge that I have read, understand and agree to the terms set forth below. Upon acceptance of my application(s); I understand my Broker/Dealer will maintain an account for me at NFS, and my Broker/Dealer may buy or sell securities or other products according to my instructions. All decisions relating to my investment or trading activity shall be made by me, my Broker/Dealer or my duly authorized representative. Any information provided in this brokerage account application and agreement will be subject to verification, and I authorize you or my Broker/Dealer to obtain a credit report about me at any time. Upon written request, NFS or my Broker/Dealer will provide the name and address of the credit reporting agency used. I authorize NFS and my Broker/Dealer to exchange credit information about me. My Broker/ Dealer and you also may tape record conversations with me in order to verify data concerning any transactions I request, and I consent to such recording. I also understand that my brokerage account(s) is carried by NFS, and that all terms of this Agreement also apply between me and NFS. I have carefully examined my financial resources, investment objectives, tolerance for risk along with the terms of the margin agreement and have determined that margin financing is appropriate for me. I understand that investing on margin involves the extension of credit to me and that my financial exposure could exceed the value of securities in my account. I agree to notify my Broker/Dealer in writing of any material changes in my financial circumstances or investment objectives. NFS may use certain securities in my account in connection with short sales and may receive compensation in connection therewith. For the purposes of this Agreement, assets in any FDIC-Insured Bank Deposit Sweep Program are deemed to be part of your brokerage account and are treated as cash deposits.
- 2. I am of legal age in the state in which I reside and represent that, except as otherwise disclosed to you in writing, I am not an employee of any Exchange or of a Member Firm of any Exchange or the Financial Industry Regulatory Authority (FINRA) and that I will promptly notify you if I become so employed. I am not employed as a director, 10% shareholder, or policy making executive officer of a publicly traded company and I will promptly notify you if I become so employed.
- **3.** All transactions are subject to the constitution, rules, regulations, customs, and usages of the exchange, market or clearinghouse where executed, as well as to any applicable federal or state laws, rules and regulations.
- 4. Any credit balances, including, but not limited to, any funds held at any Bank pursuant to any FDIC-Insured Bank Deposit Sweep Program, as described in the Customer Brokerage Agreement, or any amendment thereto, securities, assets or related contracts, and all other property in which I may have an interest held by you or carried for my brokerage accounts shall be subject to a general lien for the discharge of my obligations to you (including unmatured and contingent obligations) and you may sell, transfer, convert, withdraw, or assign such assets or property to satisfy a margin deficiency or other obligation whether or not you have made advances with respect to such property. Without notice to me, such property may be carried in your general loans, and all your securities may be pledged, repledged, hypothecated or rehypothecated, separately or in common with other securities or any other property for the sum due to you or for a greater sum, and without retaining in your possession and control for delivery a like amount of similar securities or other property. At any time in your discretion, you may, without notice to me, apply and/or transfer any securities, related contracts, cash or any other property, interchangeably between my brokerage accounts, including, but not limited to, any funds held at any Bank pursuant to any FDIC-Insured Bank Deposit Sweep Program, as described in the Customer Brokerage Agreement, and any amendment thereto, whether individual or joint, from any of my brokerage accounts to any brokerage account guaranteed by me. You are specifically authorized

to transfer to my cash account, on the settlement day following a purchase made in that brokerage account, excess funds available in any of my brokerage accounts, including, but not limited to, any free balances in any margin account, sufficient to make full payment of this cash purchase. I agree that any debit occurring in any of my brokerage accounts may be transferred by you at your option to my margin account. In return for your extension or maintenance of credit in connection with my account, I acknowledge that the securities in my margin account, together with all attendant rights of ownership, may be lent to you or lent by you to others. In connection with such loans and in connection with securities loans made to me to facilitate short sales, you may receive and retain certain benefits to which I will not be entitled. Such loans may limit, in whole or in part, my ability to exercise voting rights and/or my entitlement to interest, dividends, and/or other distributions with respect to the securities lent. I understand that, while a security in my account is lent to you or to others, the borrower or the party to whom the borrower has sold the security may be entitled to interest, dividends, and/or other distributions and I may be allocated and receive substitute payments in lieu of such interest, dividends, and/or other distributions. I understand that substitute payments may not be afforded the same tax treatment as actual interest, dividends, and/or other distributions, and that I may incur additional tax liability for substitute payments that I receive. NFS may allocate substitute payments in any manner permitted by law, rule, or regulation, including, but not limited to, by means of a lottery allocation method. I acknowledge that I am not entitled to any compensation in connection with securities lent from my account or for additional taxes I may be required to pay as a result of any tax treatment differential between substitute payments and actual interest, dividends, and/or other distributions.

- 5. I will maintain such margins as you require in your discretion at any time and will pay on demand any debit balance owing on any of my brokerage accounts. If any brokerage account is liquidated in whole or in part by you or me to satisfy the debt, I will be liable to you for any defi ciency and shall make payment of such deficiency on demand. Whenever in your discretion you deem it desirable for your protection (and without the necessity of a margin call), including but not limited to extreme market volatility or trading volumes, an instance where a petition in bankruptcy or for the appointment of a receiver is filed by or against me, or an attachment is levied against my brokerage account, or in the event of notice of my death or incapacity, or in compliance with the orders of the Exchange, you may, without prior demand, tender, and without any notice of the time or place of sale, all of which are expressly waived, sell any or all of securities or related contracts that may be in your possession, at your selection, or which you may be carrying for me, or buy any securities, or related contracts relating thereto of which my brokerage account or brokerage accounts may be short, in order to close out in whole or in part any commitment in my behalf. You may also place stop orders with respect of such securities and such sale or purchase be made at your discretion on any exchange including before or after hours markets or other markets where such business is then transacted, or at public auction or private sale, with or without advertising, and neither any demands, calls, tenders or notices which you may make or give in any one or more instances nor any prior course of conduct or dealings between us shall invalidate the aforesaid waivers on my part. You shall have the right to purchase for your own account any or all of the aforesaid property at such sale, discharged of any right of redemption which is hereby waived.
- 6. In the absence of a specific demand, all transactions in any of my brokerage accounts are to be paid for, securities delivered or required margin deposited, no later than 2 p.m. Eastern Time on the settlement date, and I agree to deliver my securities I have in my possession in sufficient time to be received by my Broker/Dealer one day before settlement date. My Broker/Dealer and NFS reserve the right to cancel or liquidate at my risk any transaction not timely settled. Margin calls are due on the date indicated regardless of the settlement date is the third business day following the trade date. Settlement dates for U.S. government issues vary. Options settle on the next business day. Interest will be charged on any debit balance which remains in my brokerage account past the settlement date as explained in the Disclosure of Credit Terms on Transactions section of this Agreement.

7. My Broker/Dealer or NFS transmits customer orders for execution to various exchanges or market centers based on a number of factors. These include: size of order, trading characteristics of the security, favorable execution prices (including the opportunity for price improvement), access to reliable market data, availability of efficient automated transaction processing and reduced execution costs through price concessions for the market centers. Certain of the market centers may execute orders at prices superior to the publicly quoted market in accordance with their rules or practices. While a customer may specify that an order be directed to a particular market center for execution*, the order-routing policies, taking into consideration all of the factors listed above, are designed to result in favorable transaction processing for customers.

My Broker/Dealer and NFS receive remuneration, compensation or other consideration for directing customer orders for equity securities to particular broker/dealers or market centers for execution. Such consideration, if any, takes the form of financial credits, monetary payments, or reciprocal business.

*Note: Orders placed through any telephone, electronic or on-line trading systems cannot specify a particular market center for execution.

8. I agree to be charged interest on any credit you extend to or maintain for me for purchasing, carrying or trading securities. The calculation methodology for the annual rate of interest I will be charged is described in the attached Disclosure of Credit Terms.

Interest on U.S. Dollar balances is calculated monthly according to my average debit balance for the month, and a base rate, set at the discretion of NFS with references to commercially recognizable interest rates, industry conditions regarding the extension of margin credit and general credit conditions. Interest rates will vary according to changes to my average debit balance and my base rate, and therefore may change without notice to me. If rates change during the month, separate charges will be shown for each interest period under the different rate. Interest on International balances is calculated daily according to actual daily debit balances during the month and the interest rate applicable to each currency in the account. Interest rates will vary according to actual daily debit balances and applicable international interest rates, and therefore may change without notice to me. Separate charges will be shown for each currency in the account at the end of the month. Calculated by computer, the interest on combined balances from all cash and margin accounts (except Type 3 Short and Type 9 Income accounts) is arrived at by multiplying the average debit balance for U.S. dollar balances by the effective rate of interest, dividing by 360, and multiplying by the number of days a daily debit balance was maintained during the interest period. Interest from International balances are calculated by multiplying the daily debit of International balances by the effective rate of interest, dividing by 360 and summing for each day a daily debit balance was maintained. You may request additional collateral in the form of marginable securities or cash whenever you deem it necessary or advisable in your sole discretion, or if there is a decline in the market value of securities in the margin account. All assets in any of my brokerage accounts, including, but not limited to, any funds held at any Bank pursuant to any FDIC-Insured Bank Deposit Sweep Program, as described in the Customer Brokerage Agreement, or any amendments thereto, are collateral for debit balances in this brokerage account, and a lien is created by these debits to secure the amount owed you. This means assets in these brokerage accounts can be sold, withdrawn, transferred, or converted by you to redeem or liquidate any debit balances in this brokerage account. You reserve the right to increase maintenance requirements and to request additional collateral at any time at your discretion. The Federal Equal Credit Opportunity Act prohibits creditors from discriminating against credit applicants on the basis of race, color, religion, national origin, sex, marital status, age (provided the applicant has the capacity to enter into a binding contract); because all or part of the applicant's income derives from a public assistance program, or because the applicant has, in good faith, exercised any right under the Consumer Credit Protection Act. The Federal agency that administers compliance with this law concerning this creditor is: Securities and Exchange Commission, 100 F Street, NE, Washington, DC 20549.

9. I agree that, in giving orders to sell, all "short" sale orders will be designated as "short" and all "long" sale orders will be designated as "long" and that the designation of a sell order as "long" is a representation on my part that I own the security and that I have delivered or will deliver by settlement date such security to you.

10. Communications by mail, telegraph, messenger or otherwise sent to me at the address of record listed on the application or any other address I may give my Broker/Dealer in writing, are presumed to be delivered and received by me, whether actually received or not. A statement of all transactions will be mailed to the address of record, monthly or quarterly, depending on activity. I understand that I should promptly and carefully review the transaction confirmations and periodic brokerage account statements and notify my Broker/Dealer of any errors. Information contained on transaction confirmations and periodic brokerage account statements is conclusive unless I object in writing within five and ten days respectively, after transmitting to me.

11. I am liable for payment upon demand of any debit balance or other obligation owed in any of my accounts or any deficiencies following a whole or partial liquidation, and I agree to satisfy any such demand or obligation. Interest will accrue on any such deficiency at prevailing margin rates until paid. I agree to reimburse my Broker/ Dealer and NFS for all reasonable costs and expenses incurred in the collection of any debit balance or unpaid defi ciency in any of my brokerage accounts, including, but not limited to, attorneys' fees. By signing this Agreement, I hereby grant to NFS and its affiliates, to secure the payment and performance in full of all of the Obligations (as hereinafter defined), a security interest in and pledge and assign to NFS and its affiliates the following properties, assets and rights, whether now owned or hereafter acquired or arising, whether individually or jointly owned and/or held by me with others, and all proceeds and products thereof (all of the same being hereinafter called the "Property"): any and all securities other investment properties (including investment company securities and securities accounts), monies, credit balances, assets or related contracts and deposit accounts, including, but not limited to, any funds held at any Bank pursuant to any FDIC-Insured Bank Deposit Sweep Program, as described in the Customer Brokerage Agreement, and any amendment thereto, to the extent any of the foregoing may now or hereafter be (i) held, carried and/or maintained by NFS and/ or any of its affiliates, (ii) held, carried or maintained by NFS and/ or any of its affiliates through any correspondent broker/dealer of NFS ("broker/dealer"), (iii) in the possession or control of NFS or any of its affiliates for any purpose, including for safekeeping, or (iv) held, carried or maintained or in the possession or control of the Fidelity Group of Funds Fidelity Service Company, Inc., as a transfer agent for the Fidelity Group of Funds or any sub transfer agent of the Fidelity Group of Funds. All terms defined in the Uniform Commercial Code of the Commonwealth of Massachusetts and used herein shall have the same definitions herein as specified therein; however, if a term is defi ned in Article 9 of the Uniform Commercial Code of the Commonwealth of Massachusetts differently than in another Article of the Uniform Commercial Code of the Commonwealth of Massachusetts, the term has the meaning specified in Article 9. For purposes hereof, the term "Obligations" shall mean any and all indebtedness, liabilities or other obligations (including unmatured and contingent obligations) now or hereafter owed by me to NFS, any of NFS's affiliates or any broker/dealer, including, but not limited to, any such indebtedness liabilities or other obligations arising under this Agreement. If a default shall have occurred and be continuing, NFS and its affiliates, without any other notice to or demand upon me, shall have in any jurisdiction in which enforcement hereof is sought, in addition to all other rights and remedies, the rights and remedies of a secured party under Article 9 of the Uniform Commercial Code of the Commonwealth of Massachusetts and any additional rights and remedies as may be provided to a secured party in any jurisdiction in which Property is located, including, without limitation the right to take possession of the Property. Without limiting the foregoing, I understand that in the event any Obligation remains unpaid after payment is requested of me, NFS shall have the right to sell, liquidate, transfer, withdraw, convert or assign such Property to satisfy any such Obligation whether or not NFS has made advances with respect to such Property. No further demand or notice shall be required prior to taking such an action. NFS shall have the discretion to determine which Property is to be sold, liquidated, transferred, withdrawn, converted, or assigned. Neither NFS nor any of its affiliates shall be required to marshal any present or future collateral security (including but not limited to the Property) for, or other assurances of payment of, the Obligations or any of them or resort to such collateral security or other assurances of payment in any particular order.

I agree to cooperate with NFS and its affiliates and to execute such further instruments and documents as NFS or its affiliates shall reasonably request to carry out to their satisfaction the transactions contemplated by this Agreement.

- 12. My Broker/Dealer and NFS are not liable for any losses caused directly or indirectly by government restrictions, exchange or market rulings, suspension of trading, war, strikes or other conditions beyond their control, including, but not limited to, extreme market volatility or trading volumes.
- **13.** No waiver of any provision of this Agreement shall be deemed a waiver of any other provision, nor a continuing waiver to the provision or provisions so waived.
- 14. No provision of this Agreement can be amended or waived except in writing signed by an officer of NFS. This Agreement will remain in effect until its termination by me is acknowledged in writing by an authorized representative of NFS; or until written notice of termination by you shall have been mailed to me at my address last given to you. I will remain responsible for all charges, debit items, or other transactions initiated or authorized by me, whether arising before or after termination.
- 15. This Agreement and its enforcement shall be governed by the laws of the Commonwealth of Massachusetts; shall cover individually and collectively all brokerage accounts that I may maintain with NFS; shall inure to the benefit of my Broker/Dealer's or your successors and assigns whether by merger, consolidation or otherwise and my Broker/Dealer and you may transfer my account to my Broker/Dealer's or your successors and assigns; and shall be binding on my heirs, executors, administrators, successors, and assigns.
- 16. If any provision of this Agreement is or at any time should become inconsistent with any present or future law, rule or regulation of any entity having regulatory jurisdiction over it, that provision will be superseded or amended to conform with such law, rule or regulation, but the remainder of this Agreement shall continue and remain in full force and effect.
- **17.** If the undersigned shall consist of more than one brokerage account holder, their obligations and liabilities under this Agreement shall be joint and several and may be enforced by my Broker/Dealer or NFS against any or all brokerage account holders.
- 18. I understand that you may deliver margin calls and other notices to my Broker/Dealer for the sole purpose of collection of my obligations under this Agreement. I agree to the foregoing and further understand that my Broker/Dealer may act on your behalf with respect to margin calls in your discretion.
- 19. I represent that I have read and understand the Disclosure of Credit Terms on Transactions. I further understand that they may be amended from time to time.
- 20. Pre-Dispute Arbitration Agreement

This agreement contains a pre-dispute arbitration clause. By signing an arbitration agreement, the parties agree as follows:

- (A) All parties to this agreement are giving up the right to sue each other in court, including the right to a trial by jury, except as provided by the rules of the arbitration forum in which a claim is filed.
- (B) Arbitration awards are generally final and binding; a party's ability to have a court reverse or modify an arbitration award is very limited.
- (C) The ability of the parties to obtain documents, witness statements and other discovery is generally more limited in arbitration than in court proceedings.
- (D) The arbitrators do not have to explain the reason(s) for their award unless, in an eligible case, a joint request for an explained decision has been submitted by all parties to the panel at least 20 days prior to the first scheduled hearing date.
- (E) The panel of arbitrators will typically include a minority of arbitrators who were or are affiliated with the securities industry.
- (F) The rules of some arbitration forums may impose time limits for bringing a claim in arbitration. In some cases, a claim that is ineligible for arbitration may be brought in court.
- (G) The rules of the arbitration forum in which the claim is filed, and any amendments thereto, shall be incorporated into this agreement.

All controversies that may arise between me, my Broker/Dealer and NFS concerning any subject matter, issue or circumstance whatso ever (including, but not limited to, controversies concerning any account, order or transaction, or the continuation, performance, interpretation or breach of this or any other agreement between me, my Broker/Dealer and NFS whether entered into or arising before, on or after the date this account is opened) shall be determined by arbitration in accordance with the rules then prevailing of the Financial Industry Regulatory Authority (FINRA) or any United States securities self-regulatory organization or United States securities exchange of which the person, entity or entities against whom the claim is made is a member, as I may designate. If I designate the rules of a United States self-regulatory organization or United States securities exchange and those rules fail to be applied for any reason, then I shall designate the prevailing rules of any other United States securities self-regulatory organization or United States securities exchange of which the person, entity or entities against whom the claim is made is a member. If I do not notify you and/or my Broker/Dealer in writing of my designation within five (5) days after such failure or after I receive from you a written demand for arbitration, then I authorize my Broker/Dealer and/or NFS to make such designation on my behalf. The designation of the rules of a United States self-regulatory organization or United States securities exchange is not integral to the underlying agreement to arbitrate. I understand that judgment upon any arbitration award may be entered in any court of competent jurisdiction.

No person shall bring a putative or certified class action to arbitration, nor seek to enforce any predispute arbitration agreement against any person who has initiated in court a putative class action; or who is a member of a putative class who has not opted out of the class with respect to any claims encompassed by the putative class action until: (i) the class certification is denied; or (ii) the class is decertified; or (iii) the customer is excluded from the class by the court. Such forbearance to enforce an agreement to arbitrate shall not constitute a waiver of any rights under this agreement except to the extent stated herein.

You are hereby authorized to lend, hypothecate or re-hypothecate separately or with the property of others, either to yourselves or to others, any property you may be carrying for me on margin. NFS may use certain securities in my account in connection with short sales and may receive compensation in connection therewith. This authorization shall apply to all my brokerage accounts you carry and shall remain in full force until you receive from my Broker/Dealer written notice of my revocation at your principal offices.

I understand, and I have elected to establish this brokerage account as a Transfer on Death with margin privileges. I understand further that NFS shall, upon my death, liquidate any securities, or withdraw, transfer or convert any assets necessary to satisfy the margin debit balance in my account prior to the distribution of this brokerage account assets to my designated beneficiaries. The terms of this application shall be binding on my heirs and successors.

I represent that I have read the terms and conditions concerning this account and agree to be bound by such terms and conditions as currently in effect and as may be amended from time to time. This account is governed by a Pre-Dispute Arbitration Clause which appears in paragraph 20 on pages 4 and 9 of this Agreement. I acknowledge receipt of the Pre-Dispute Arbitration Clause, the Disclosure of Credit Terms on transactions, and Margin Disclosure Statement.

Margin credit extended by National Financial Services LLC, Member NYSE, SIPC

Account Numbe	r					
To be retained by Broker/Dealer						

Margin Account Privileges Supplemental Application for NFS

1. Account Owner(s)

1	Account Owner Name
2	Additional Owner, Company or Trust Name
3	Additional Account Owner Name
4	Additional Account Owner Name
	Check here if applying for margin on a Transfer on Death (TOD) Account
2.	Financial Information Required by industry regulations to obtain this information.

For joint account, check your	Annual Income Estimated Net W From All Sources Excluding Home and			Investable Assets Liquid Net Worth		Federal Tax Bracket		
combined income.	Under \$25,000	Under \$50,000		Under \$50,000		15% or below		
	 \$25,000 - \$50,000			\$50,001 - \$100,000		 25% - 27.5%		
	\$50,001 - \$100,000	\$100,001 - \$500,000		\$100,001 - \$500,000		 Over 27.5%		
	Over \$100,000	Over \$500,000		Over \$500,000				
	Other	Other		Other				
3. Affiliation	S							
Check all that	Account Owner 1 Af	iliated Entity Name						
apply if you are		,						
affiliated with, or	Address Line 1			Address Line 2				
employed by, a stock exchange,	Address Line 1			Address Line 2				
or a member firm								
of an exchange or Financial Industry	City	St	tate/Province	Zip/Postal Code	Country			
Regulatory								
Authority (FINRA),		State of Franks, Name						
or a municipal securities dealer.	Account Owner 2	iliated Entity Name						
If yes, provide	Address Line 1			Address Line 2				
name of entity.								
	City	St	tate/Province	Zip/Postal Code	Country			
	Account Owner 3 Affiliated Entity Name							
	Address Line 1			Address Line 2				
	City	St	tate/Province	Zip/Postal Code	Country			
	Account Owner 4 Affiliated Entity Name							
	Address Line 1			Address Line 2				
	City	St	tate/Province	Zip/Postal Code	Country			

Margin Account Agreement Customer Copy

To: My Broker/Dealer and National Financial Services LLC ("NFS" or "you") Introducing Broker/Dealer

Broker/Dealer

- 1. I agree as follows with respect to all of my brokerage accounts, in which I have an interest alone or with others, which I have opened or will open in the future, with you through my Broker/Dealer for the purchase and sale of securities. I hereby acknowledge that I have read, understand and agree to the terms set forth below. Upon acceptance of my application(s); I understand my Broker/Dealer will maintain an account for me at NFS, and my Broker/Dealer may buy or sell securities or other products according to my instructions. All decisions relating to my investment or trading activity shall be made by me, my Broker/Dealer or my duly authorized representative. Any information provided in this brokerage account application and agreement will be subject to verification, and I authorize you or my Broker/Dealer to obtain a credit report about me at any time. Upon written request, NFS or my Broker/Dealer will provide the name and address of the credit reporting agency used. I authorize NFS and my Broker/Dealer to exchange credit information about me. My Broker/Dealer and you also may tape record conversations with me in order to verify data concerning any transactions I request, and I consent to such recording. I also understand that my brokerage account(s) is carried by NFS, and that all terms of this Agreement also apply between me and NFS. I have carefully examined my fi nancial resources, investment objectives, tolerance for risk along with the terms of the margin agreement and have determined that margin financing is appropriate for me. I understand that investing on margin involves the extension of credit to me and that my financial exposure could exceed the value of securities in my account. I agree to notify my Broker/Dealer in writing of any material changes in my fi nancial circumstances or investment objectives. NFS may use certain securities in your account in connection with short sales and may receive compensation in connection therewith. For the purposes of this Agreement, assets in any FDIC-Insured Bank Deposit Sweep Program are deemed to be part of your brokerage account and are treated as cash deposits.
- 2. I am of legal age in the state in which I reside and represent that, except as otherwise disclosed to you in writing, I am not an employee of any Exchange or of a Member Firm of any Exchange or the Financial Industry Regulatory Authority (FINRA) and that I will promptly notify you if I become so employed. I am not employed as a director, 10% shareholder, or policy making executive officer of a publicly traded company and I will promptly notify you if I become so employed.
- **3.** All transactions are subject to the constitution, rules, regulations, customs, and usages of the exchange, market or clearinghouse where executed, as well as to any applicable federal or state laws, rules and regulations.
- 4. Any credit balances, including, but not limited to, any funds held at any Bank pursuant to any FDIC-Insured Bank Deposit Sweep Program, as described in the Customer Brokerage Agreement, or any amendment thereto, securities, assets or related contracts, and all other property in which I may have an interest held by you or carried for my brokerage accounts shall be subject to a general lien for the discharge of my obligations to you (including unmatured and contingent obligations) and you may sell, transfer, convert, withdraw, or assign such assets or property to satisfy a margin deficiency or other obligation whether or not you have made advances with respect to such property. Without notice to me, such property may be carried in your general loans, and all your securities may be pledged, repledged, hypothecated or rehypothecated, separately or in common with other securities or any other property for the sum due to you or for a greater sum, and without retaining in your possession and control for delivery a like amount of similar securities or other property. At any time in your discretion, you may, without notice to me, apply and/or transfer any securities, related contracts, cash or any other property, interchangeably between my brokerage accounts, including, but not limited to, any funds held at any Bank pursuant

to any FDIC-Insured Bank Deposit Sweep Program, as described in the Customer Brokerage Agreement, and any amendment thereto, whether individual or joint, from any of my brokerage accounts to any brokerage account guaranteed by me. You are specifically authorized to transfer to my cash account, on the settlement day following a purchase made in that brokerage account, excess funds available in any of my brokerage accounts, including, but not limited to, any free balances in any margin account, sufficient to make full payment of this cash purchase. I agree that any debit occurring in any of my brokerage accounts may be transferred by you at your option to my margin account. In return for your extension or maintenance of credit in connection with my account, I acknowledge that the securities in my margin account, together with all attendant rights of ownership, may be lent to you or lent by you to others. In connection with such loans and in connection with securities loans made to me to facilitate short sales, you may receive and retain certain benefi ts to which I will not be entitled. Such loans may limit, in whole or in part, my ability to exercise voting rights and/or my entitlement to interest, dividends, and/or other distributions with respect to the securities lent. I understand that, while a security in my account is lent to you or to others, the borrower or the party to whom the borrower has sold the security may be entitled to interest, dividends, and/or other distributions and I may be allocated and receive substitute payments in lieu of such interest, dividends, and/or other distributions. I understand that substitute payments may not be afforded the same tax treatment as actual interest, dividends, and/or other distributions, and that I may incur additional tax liability for substitute payments that I receive. NFS may allocate substitute payments in any manner permitted by law, rule, or regulation, including, but not limited to, by means of a lottery allocation method. I acknowledge that I am not entitled to any compensation in connection with securities lent from my account or for additional taxes I may be required to pay as a result of any tax treatment differential between substitute payments and actual interest, dividends, and/or other distributions.

- 5. I will maintain such margins as you require in your discretion at any time and will pay on demand any debit balance owing on any of my brokerage accounts. If any brokerage account is liquidated in whole or in part by you or me to satisfy the debt, I will be liable to you for any deficiency and shall make payment of such deficiency on demand. Whenever in your discretion you deem it desirable for your protection (and without the necessity of a margin call), including but not limited to extreme market volatility or trading volumes, an instance where a petition in bankruptcy or for the appointment of a receiver is filed by or against me, or an attachment is levied against my brokerage account, or in the event of notice of my death or incapacity, or in compliance with the orders of the Exchange, you may, without prior demand, tender, and without any notice of the time or place of sale, all of which are expressly waived, sell any or all of securities or related contracts that may be in your possession, at your selection, or which you may be carrying for me, or buy any securities, or related contracts relating thereto of which my brokerage account or brokerage accounts may be short, in order to close out in whole or in part any commitment in my behalf. You may also place stop orders with respect of such securities and such sale or purchase be made at your discretion on any exchange including before or after hours markets or other markets where such business is then transacted, or at public auction or private sale, with or without advertising, and neither any demands, calls, tenders or notices which you may make or give in any one or more instances nor any prior course of conduct or dealings between us shall invalidate the aforesaid waivers on my part. You shall have the right to purchase for your own account any or all of the aforesaid property at such sale, discharged of any right of redemption which is hereby waived.
- 6. In the absence of a specific demand, all transactions in any of my brokerage accounts are to be paid for, securities delivered or required margin deposited, no later than 2 p.m. Eastern Time on the settlement date, and I agree to deliver my securities I have in my possession in sufficient time to be received by my Broker/Dealer one day before settlement date. My Broker/Dealer and NFS reserve the right to cancel or liquidate at my risk any transaction not timely settled. Margin calls are due on the date indicated regardless of the settlement date of the transaction. For most stocks and bonds, the settlement date is the third business day following the trade date.

Settlement dates for U.S. government issues vary. Options settle on the next business day. Interest will be charged on any debit balance which remains in my brokerage account past the settlement date as explained in the Disclosure of Credit Terms on Transactions section of this Agreement.

- 7. My Broker/Dealer or NFS transmits customer orders for execution to various exchanges or market centers based on a number of factors. These include: size of order, trading characteristics of the security, favorable execution prices (including the opportunity for price improvement), access to reliable market data, availability of efficient automated transaction processing and reduced execution costs through price concessions for the market centers. Certain of the market centers may execute orders at prices superior to the publicly quoted market in accordance with their rules or practices. While a customer may specify that an order be directed to a particular market center for execution*, the order-routing policies, taking into consideration all of the factors listed above, are designed to result in favorable transaction processing for customers. My Broker/Dealer and NFS receive remuneration, compensation or other consideration for directing customer orders for equity securities to particular broker/ dealers or market centers for execution. Such consideration, if any, takes the form of financial credits, monetary payments, or reciprocal husiness
- * Note: Orders placed through any telephone, electronic or on-line trading systems cannot specify a particular market center for execution.
- 8. I agree to be charged interest on any credit you extend to or maintain for me for purchasing, carrying or trading securities. The calculation methodology for the annual rate of interest I will be charged is described in the attached Disclosure of Credit Terms.Interest on U.S. Dollar balances is calculated monthly according to my average debit balance for the month, and a base rate, set at the discretion of NFS with references to commercially recognizable interest rates, industry conditions regarding the extension of margin credit and general credit conditions. Interest rates will vary according to changes to my average debit balance and my base rate, and therefore may change without notice to me. If rates change during the month, separate charges will be shown for each interest period under the different rate. Interest on International balances is calculated daily according to actual daily debit balances during the month and the interest rate applicable to each currency in the account. Interest rates will vary according to actual daily debit balances and applicable international interest rates, and therefore may change without notice to me. Separate charges will be shown for each currency in the account at the end of the month. Calculated by computer, the interest on combined balances from all cash and margin accounts (except Type 3 Short and Type 9 Income accounts) is arrived at by multiplying the average debit balance for U.S. dollar balances by the effective rate of interest, dividing by 360, and multiplying by the number of days a daily debit balance was maintained during the interest period. Interest from International balances are calculated by multiplying the daily debit of International balances by the effective rate of interest, dividing by 360 and summing for each day a daily debit balance was maintained. You may request additional collateral in the form of marginable securities or cash whenever you deem it necessary or advisable in your sole discretion, or if there is a decline in the market value of securities in the margin account. All assets in any of my brokerage accounts, including, but not limited to, any funds held at any Bank pursuant to any FDIC-Insured Bank Deposit Sweep Program, as described in the Customer Brokerage Agreement, or any amendments thereto, are collateral for debit balances in this brokerage account, and a lien is created by these debits to secure the amount owed you. This means assets in these brokerage accounts can be sold, withdrawn, transferred, or converted by you to redeem or liquidate any debit balances in this brokerage account. You reserve the right to increase maintenance requirements and to request additional collateral at any time at your discretion. The Federal Equal Credit Opportunity Act prohibits creditors from discriminating against credit applicants on the basis of race, color, religion, national origin, sex, marital status, age (provided the applicant has the capacity to enter into a binding contract); because all or part of the applicant's income derives from a public assistance program, or because the applicant has, in good faith, exercised any right under the Consumer Credit Protection Act. The Federal agency that administers compliance with this law concerning this creditor is: Securities and Exchange Commission, 100 F Street, NE, Washington, DC 20549

- **9.** I agree that, in giving orders to sell, all "short" sale orders will be designated as "short" and all "long" sale orders will be designated as "long" and that the designation of a sell order as "long" is a representation on my part that I own the security and that I have delivered or will deliver by settlement date such security to you.
- 10. Communications by mail, telegraph, messenger or otherwise sent to me at the address of record listed on the application or any other address I may give my Broker/Dealer in writing, are presumed to be delivered and received by me, whether actually received or not. A statement of all transactions will be mailed to the address of record, monthly or quarterly, depending on activity. I understand that I should promptly and carefully review the transaction confirmations and periodic brokerage account statements and notify my Broker/Dealer of any errors. Information contained on transaction confirmations and periodic brokerage account statements is conclusive unless I object in writing within five and ten days respectively, after transmitting to me.
- 11. I am liable for payment upon demand of any debit balance or other obligation owed in any of my accounts or any deficiencies following a whole or partial liquidation, and I agree to satisfy any such demand or obligation. Interest will accrue on any such deficiency at prevailing margin rates until paid. I agree to reimburse my Broker/ Dealer and NFS for all reasonable costs and expenses incurred in the collection of any debit balance or unpaid defi ciency in any of my brokerage accounts, including, but not limited to, attorneys' fees. By signing this Agreement, I hereby grant to NFS and its affiliates, to secure the payment and performance in full of all of the Obligations (as hereinafter defined), a security interest in and pledge and assign to NFS and its affiliates the following properties, assets and rights, whether now owned or hereafter acquired or arising, whether individually or jointly owned and/or held by me with others, and all proceeds and products thereof (all of the same being hereinafter called the "Property"): any and all securities other investment properties (including investment company securities and securities accounts), monies, credit balances, assets or related contracts and deposit accounts, including, but not limited to, any funds held at any Bank pursuant to any FDIC-Insured Bank Deposit Sweep Program, as described in the Customer Brokerage Agreement, and any amendment thereto, to the extent any of the foregoing may now or hereafter be (i) held, carried and/or maintained by NFS and/ or any of its affiliates, (ii) held, carried or maintained by NFS and/ or any of its affiliates through any correspondent broker/dealer of NFS ("broker/dealer"), (iii) in the possession or control of NFS or any of its affi liates for any purpose, including for safekeeping, or (iv) held, carried or maintained or in the possession or control of the Fidelity Group of Funds Fidelity Service Company, Inc., as a transfer agent for the Fidelity Group of Funds or any sub transfer agent of the Fidelity Group of Funds. All terms defined in the Uniform Commercial Code of the Commonwealth of Massachusetts and used herein shall have the same definitions herein as specified therein; however, if a term is defined in Article 9 of the Uniform Commercial Code of the Commonwealth of Massachusetts differently than in another Article of the Uniform Commercial Code of the Commonwealth of Massachusetts, the term has the meaning specified in Article 9. For purposes hereof, the term "Obligations" shall mean any and all indebtedness, liabilities or other obligations (including unmatured and contingent obligations) now or hereafter owed by me to NFS, any of NFS's affiliates or any broker/dealer, including, but not limited to, any such indebtedness liabilities or other obligations arising under this Agreement. If a default shall have occurred and be continuing, NFS and its affiliates, without any other notice to or demand upon me, shall have in any jurisdiction in which enforcement hereof is sought, in addition to all other rights and remedies, the rights and remedies of a secured party under Article 9 of the Uniform Commercial Code of the Commonwealth of Massachusetts and any additional rights and remedies as may be provided to a secured party in any jurisdiction in which Property is located, including, without limitation the right to take possession of the Property. Without limiting the foregoing, I understand that in the event any Obligation remains unpaid after payment is requested of me, NFS shall have the right to sell, liquidate, transfer, withdraw, convert, or assign such Property to satisfy any such Obligation whether or not NFS has made advances with respect to such Property. No further demand or notice shall be required prior to taking such an action. NFS shall have the discretion to determine which Property is to be sold, liquidated, transferred, withdrawn, converted,

or assigned. Neither NFS nor any of its affiliates shall be required to marshal any present or future collateral security (including but not limited to the Property) for, or other assurances of payment of, the Obligations or any of them or resort to such collateral security or other assurances of payment in any particular order. I agree to cooperate with NFS and its affiliates and to execute such further instruments and documents as NFS or its affiliates shall reasonably request to carry out to their satisfaction the transactions contemplated by this Agreement.

- 12. My Broker/Dealer and NFS are not liable for any losses caused directly or indirectly by government restrictions, exchange or market rulings, suspension of trading, war, strikes or other conditions beyond their control, including, but not limited to, extreme market volatility or trading volumes.
- **13.** No waiver of any provision of this Agreement shall be deemed a waiver of any other provision, nor a continuing waiver to the provision or provisions so waived.
- 14. No provision of this Agreement can be amended or waived except in writing signed by an officer of NFS. This Agreement will remain in effect until its termination by me is acknowledged in writing by an authorized representative of NFS; or until written notice of termination by you shall have been mailed to me at my address last given to you. I will remain responsible for all charges, debit items, or other transactions initiated or authorized by me, whether arising before or after termination.
- 15. This Agreement and its enforcement shall be governed by the laws of the Commonwealth of Massachusetts; shall cover individually and collectively all brokerage accounts that I may maintain with NFS; shall inure to the benefit of my Broker/Dealer's or your successors and assigns whether by merger, consolidation or otherwise and my Broker/Dealer and you may transfer my account to my Broker/Dealer's or your successors and assigns; and shall be binding on my heirs, executors, administrators, successors, and assigns.
- 16. If any provision of this Agreement is or at any time should become inconsistent with any present or future law, rule or regulation of any entity having regulatory jurisdiction over it, that provision will be superseded or amended to conform with such law, rule or regulation, but the remainder of this Agreement shall continue and remain in full force and effect.
- 17. If the undersigned shall consist of more than one brokerage account holder, their obligations and liabilities under this Agreement shall be joint and several and may be enforced by my Broker/Dealer or NFS against any or all brokerage account holders.
- 18. I understand that you may deliver margin calls and other notices to my Broker/Dealer for the sole purpose of collection of my obligations under this Agreement. I agree to the foregoing and further understand that my Broker/Dealer may act on your behalf with respect to margin calls in your discretion.
- 19. I represent that I have read and understand the Disclosure of Credit Terms on Transactions. I further understand that they may be amended from time to time.

20. Pre-Dispute Arbitration Agreement

This agreement contains a pre-dispute arbitration clause. By signing an arbitration agreement, the parties agree as follows:

- (A) All parties to this agreement are giving up the right to sue each other in court, including the right to a trial by jury, except as provided by the rules of the arbitration forum in which a claim is filed.
- (B) Arbitration awards are generally final and binding; a party's ability to have a court reverse or modify an arbitration award is very limited.
- (C) The ability of the parties to obtain documents, witness statements and other discovery is generally more limited in arbitration than in court proceedings.

- (D) The arbitrators do not have to explain the reason(s) for their award unless, in an eligible case, a joint request for an explained decision has been submitted by all parties to the panel at least 20 days prior to the first scheduled hearing date.
- (E) The panel of arbitrators will typically include a minority of arbitrators who were or are affiliated with the securities industry.
- (F) The rules of some arbitration forums may impose time limits for bringing a claim in arbitration. In some cases, a claim that is ineligible for arbitration may be brought in court.
- (G) The rules of the arbitration forum in which the claim is filed, and any amendments thereto, shall be incorporated into this agreement.

All controversies that may arise between me, my Broker/Dealer and NFS concerning any subject matter, issue or circumstance whatso ever (including, but not limited to, controversies concerning any account, order or transaction, or the continuation, performance, interpretation or breach of this or any other agreement between me, my Broker/Dealer and NFS whether entered into or arising before, on or after the date this account is opened) shall be determined by arbitration in accordance with the rules then prevailing of the Financial Industry Regulatory Authority (FINRA) or any United States securities self-regulatory organization or United States securities exchange of which the person, entity or entities against whom the claim is made is a member, as I may designate. If I designate the rules of a United States self-regulatory organization or United States securities exchange and those rules fail to be applied for any reason, then I shall designate the prevailing rules of any other United States securities self-regulatory organization or United States securities exchange of which the person, entity or entities against whom the claim is made is a member. If I do not notify you and/or my Broker/Dealer in writing of my designation within five (5) days after such failure or after I receive from you a written demand for arbitration, then I authorize my Broker/Dealer and/or NFS to make such designation on my behalf. The designation of the rules of a United States self-regulatory organization or United States securities exchange is not integral to the underlying agreement to arbitrate. I understand that judgment upon any arbitration award may be entered in any court of competent jurisdiction.

No person shall bring a putative or certified class action to arbitration, nor seek to enforce any predispute arbitration agreement against any person who has initiated in court a putative class action; or who is a member of a putative class who has not opted out of the class with respect to any claims encompassed by the putative class action until: (i) the class certification is denied; or (ii) the class is decertified; or (iii) the customer is excluded from the class by the court. Such forbearance to enforce an agreement to arbitrate shall not constitute a waiver of any rights under this agreement except to the extent stated herein.

You are hereby authorized to lend, hypothecate or re-hypothecate separately or with the property of others, either to yourselves or to others, any property you may be carrying for me on margin. NFS may use certain securities in my account in connection with short sales and may receive compensation in connection therewith. This authorization shall apply to all my brokerage accounts you carry and shall remain in full force until you receive from my Broker/Dealer written notice of my revocation at your principal offices.

I understand, and I have elected to establish this brokerage account as a Transfer on Death with margin privileges. I understand further that NFS shall, upon my death, liquidate any securities, or withdraw, transfer or convert any assets necessary to satisfy the margin debit balance in my account prior to the distribution of this brokerage account assets to my designated beneficiaries.

Margin Disclosure Statement

I represent that I have read the terms and conditions concerning this account and agree to be bound by such terms and conditions as currently in effect and as may be amended from time to time. This account is governed by a Pre-Dispute Arbitration Clause which appears in paragraph 20 on pages 4 and 9 of this Agreement. I acknowledge receipt of the Pre-Dispute Arbitration Clause, the Disclosure of Credit Terms on transactions, and Margin Disclosure Statement.

Important Information About Using Margin

This document is being furnished to you to provide some basic information about purchasing securities on margin, and to alert you to the risks involved with trading securities in a margin account. Before trading securities in a margin account, you should carefully review the margin terms in your account application and agreement. Contact your broker/dealer regarding any questions or concerns you may have with your margin accounts.

When you purchase securities, you may pay for the securities in full or you may borrow all or part of the purchase price from your brokerage firm. If you choose to borrow funds from your firm, you will open a margin account with National Financial Services LLC ("NFS"). The securities in your accounts are NFS' collateral for the loan to you. If the securities in your account decline in value, so does the value of the collateral supporting your loan, and, as a result, NFS and your broker/dealer can take action, such as issue a margin call and/or sell securities or other assets in any of your accounts held with NFS through your broker/dealer, in order to maintain the required equity in the account. NFS may also take action to sell securities or other assets in your accounts held with NFS and with certain NFS affiliates.

It is important that you fully understand the risks involved in trading securities on margin. These risks include the following:

- You can lose more funds than you deposit in the margin account. A decline in the value of securities you purchased on margin may require you to provide additional funds or margineligible securities to NFS to avoid the forced sale of any securities or assets in your account(s).
- NFS and your broker/dealer can force the sale of securities or other assets in your account(s). If the equity in your account falls below the maintenance margin requirements or NFS' higher "house" requirements, NFS or your broker/dealer can sell the securities or other assets in any of your accounts held at NFS through your broker/dealer to cover the margin deficiency. NFS may also take action to sell securities or other assets in your accounts held with NFS and certain NFS affiliates. You also will be responsible for any short fall in the account after such a sale, possibly including NFS' and/or your broker/dealer's costs related to collecting the short fall. If you are a director, officer or 10% shareholder of an issuer whose securities NFS sells to cover a margin defi ciency in your account, you could be liable to this issuer for profi ts from the forced sale, as compared with any purchases you may have made of securities of the same issuer within six months of the sale (note that you could receive such a profit even if a shortfall remains in the account after the sale).
- NFS and your broker/dealer can sell your securities or other assets without contacting you. Some investors mistakenly believe that a firm must contact them for a margin call to be valid, and that the firm cannot liquidate securities or other assets in their accounts to meet the call unless the firm has contacted them first. This is not the case. Most firms will attempt to notify their customers of margin calls, but they are not required to do so. In addition, even if a firm has contacted a customer and provided a specific date by which the customer can meet a margin call, the firm can still take necessary steps to protect its financial interests prior to that date, including immediately selling the securities without notice to the customer.

- You are not entitled to choose which securities or other assets in your account(s) are liquidated or sold to meet a margin call. Because the securities and any other assets in your account(s) are collateral for the margin loan, NFS or your broker/dealer has the right to decide which assets to sell in order to protect its interests.
- NFS can increase its "house" maintenance margin requirements at any time and is not required to provide you advance notice. These changes in firm policy often take effect immediately and may result in the issuance of a maintenance margin call. Your failure to satisfy the call may cause NFS or your broker/dealer to liquidate or sell securities or any other assets in your account(s).
- You are not entitled to an extension of time on a margin call. While an extension of time to meet margin requirements may be available to customers under certain conditions, a customer does not have a right to the extension.
- Short selling is a margin account transaction and entails the same risks as described above. NFS or your broker/dealer can buy in your account securities to cover a short position without contacting you, and may use all or any portion of the assets in your account to make such a purchase. If the assets in your account are not sufficient to cover the cost of such a purchase, you will be responsible for any shortfall, possibly including NFS' and/or your broker/dealer's costs in collecting the shortfall.
- NFS can loan securities held in your margin account which collateralize your margin borrowing. In connection with the extension or maintenance of margin credit, NFS may loan securities in your margin account to itself or to others. As a result of these loans, you may not be entitled to receive certain benefits of a securities owner, such as the ability to exercise voting rights and/or receive interest, dividends, and/or other distributions with respect to the securities lent. While a security in your account is lent, you may only be allocated and receive substitute payments in lieu of such interest, dividends, and/or other distributions. Substitute payments may not be afforded the same tax treatment as actual interest, dividends, and/or other distributions, and you may incur additional tax liability for substitute payments that you receive. NFS may allocate substitute payments in any manner permitted by law, rule, or regulation, including, but not limited to, by means of a lottery allocation method. You are not entitled to any compensation in connection with securities lent from your account or for additional taxes you may be required to pay as a result of any tax treatment differential between substitute payments and actual interest, dividends, and/or other distributions.
- In addition to market volatility, the use of bank card, checkwriting and similar features with your margin account may increase the risk of a margin call.
- NFS may use certain securities in your account in connection with short sales and may receive compensation in connection therewith.

Dear Customer:

Securities and Exchange Commission Rule 10b-16 requires a broker who extends credit to a customer in connection with any security transaction to furnish the customer specified information describing the terms, conditions and methods pursuant to which interest charges are made to customers' accounts. This statement is sent to you in conformity with that rule.

Interest will be charged on all accounts for any credit extended to or maintained for customers by the firm for the purpose of purchasing, carrying or trading in securities or otherwise.

The annual rate of interest you will be charged may vary from a minimum of 1% to a maximum of 3.00% above the National Financial Base Lending Rate ("NFBLR"), depending upon the amount of your average debit balance. The NFBLR is set at the discretion of NFS with references to commercially recognized interest rates, industry conditions regarding the extension of margin credit, and general credit conditions.

Current rates are as follows:

Average Debit Balance	Interest to be Charged Above NFBLR
\$0 — \$9,999	3.00%
\$10,000 — \$24,999	2.75%
\$25,000 — \$99,999	1.75%
\$100,000 — \$499,999	1.25%
\$500,000 and over	1.00%

In determining the daily debit balance and the resulting rate of interest we will combine the margin account balances in all accounts, except Type 3-Short Accounts and Type 9-Income Accounts. Interest is then computed for each account based on the rate resulting from averaging the daily debit balances during the interest period.

Your rate of interest will be changed without notice in accordance with changes in the NFBLR and in your average debit balance. When your interest rate is to be increased for any other reason, you will be given at least 30 days' written notice. If NFBLR is expressed as a range, NFS may apply the highest end of the range.

Your monthly statement will show the dollar amount of interest and the interest rate charged to your account. There will be no interest charge reflected on your statement if your monthly charge is less than \$1.00. An interest cycle will cover the period beginning with the first business day following the 20th of each month.

All securities or other property held by us in any of your accounts are collateral for any debit balances. A lien is created by those debits to secure the amount of money owed to us. This means securities or other assets in any of your accounts can be sold, withdrawn, transferred or converted to reduce or liquidate entirely any debit balances in your accounts, as authorized in your Margin Account Agreement.

If there is a decline in the market value of the securities or other assets which are collateral for your debits, it may be necessary for us to request additional margin.

Ordinarily, a request for additional margin will be made when the equity in the margin account (the market value of the securities in the account in excess of the debit balances) falls below our margin maintenance requirements, which may change from time to time without notice. We retain the right to require additional margin any time we deem it desirable. Margin calls can be met by delivery of cash or additional securities.

Other Charges. Separate charges at an annual rate of 3.0% above NFBLR may be made in the Type 1-Cash Account in connection with:

- Prepayments (by approval only) payments to a customer of the proceeds of a security sale before the regular settlement date.
- b) "When-Issued" transactions when the market price of the "when-issued" security deteriorates from the customer's contract price by an amount that exceeds the customer's cash deposit, interest may be charged on such excess.
- c) Late payments payments for securities purchased which are received past settlement date.

Interest Computation. Interest on debit balances is computed by multiplying the average daily debit balance of the account by the applicable interest rate in effect and dividing by 360, times the number of days a daily debit balance was maintained during the interest period. Interest charged during the interest period is the total of such daily computations. The daily debit balance of the account is the aggregate daily debit balance for all accounts other than your Type 3-Short and Type 9-Income Accounts.

Daily Debit Balance
\$ 0
5,000
10,500
8,000
\$23,500

\$23,500 divided by 3 equals 7,833 (daily average balance), times 11.0% (applicable interest rate), divided by 360 equals \$2.39 (the daily interest charge) times 3 (the number of days the account had a debit balance during the interest period) equals an interest charge of \$7.18.

Marking to Market. The credit balance in the Type 3-Short Account will be decreased or increased in accordance with the corresponding market values of all short positions. Corresponding debits or credits will be posted to the Type 2-Margin Account. These entries in the Type 2-Margin Account will, of course, affect the balance on which interest is computed. Credits in your Type 3-Short Account, other than Marking to Market, will not be utilized to offset your Type 2-Margin Account balance for interest computation.

Notice to Customers

Financial Industry Regulatory Authority, Inc. rule 4311 requires that your Broker/Dealer and NFS allocate between them certain functions regarding the administration of your brokerage account. The following is a summary of the allocation services performed by your Broker/Dealer and NFS. A more complete description is available upon request.

Your Broker/Dealer is responsible for: (1) obtaining and verifying brokerage account information and documentation, (2) opening, approving and monitoring your brokerage account, (3) transmitting timely and accurate instructions to NFS with respect to your brokerage account, (4) determining the suitability of investment recommendations and advice, (5) operating and supervising your brokerage account and its own activities in compliance with applicable laws and regulations, including compliance with margin rules pertaining to your margin account, and (6) maintaining of required books and records for the services it performs.

NFS shall, at the direction of your Broker/Dealer: (1) execute, clear and settle transactions processed through NFS by your Broker/Dealer, (2) prepare and send transaction confirmations and periodic statements of your brokerage account (unless your Broker/Dealer has undertaken to do so). Certain pricing and other information may be provided by your Broker/Dealer or obtained from third parties, which has not been verified by NFS, (3) act as custodian for funds and securities received by NFS on your broker/Dealer or obtained from third parties, which has not been verified by NFS, (3) act as custodian for funds and securities received by NFS on your (5) extend margin credit for purchasing or carrying securities on margin. Your Broker/Dealer is responsible for ensuring that your brokerage account is in compliance with federal, industry and NFS margin rules, and for advising you of margin requirements. NFS shall maintain the required books and records for the services it performs.

BY SIGNING THIS APPLICATION I ACKNOWLEDGE THAT MY SECURITIES MAY BE LOANED TO YOU OR OTHERS AND THAT I HAVE READ AND RETAINED A COPY OF THE MARGIN DISCLOSURE STATEMENT AND MARGIN AGREEMENT. I understand that this account is governed by a pre-dispute arbitration agreement which appears on the last page of the Margin Account Agreement.

Х		X	
1. ACCOUNT HOLDER SIGNATURE	DATE mm/dd/yyyy	3. JOINT ACCOUNT HOLDERS (IF ANY)	DATE mm/dd/yyyy
Х		X	
2. JOINT ACCOUNT HOLDERS SIGNATURE (IF ANY)	DATE mm/dd/yyyy	4. JOINT ACCOUNT HOLDERS (IF ANY)	DATE mm/dd/yyyy

National Financial Services LLC, Member NYSE, SIPC

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Please keep this document for your records

Dear Customer:

Securities and Exchange Commission Rule 10b-16 requires a broker who extends credit to a customer in connection with any security transaction to furnish the customer specified information describing the terms, conditions and methods pursuant to which interest charges are made to customers' accounts. This statement is sent to you in conformity with that rule.

Interest will be charged on all accounts for any credit extended to or maintained for customers by the firm for the purpose of purchasing, carrying or trading in securities or otherwise.

The annual rate of interest you will be charged may vary from a minimum of 1% to a maximum of 3.00% above the National Financial Base Lending Rate ("NFBLR"), depending upon the amount of your average debit balance. The NFBLR is set at the discretion of NFS with references to commercially recognized interest rates, industry conditions regarding the extension of margin credit, and general credit conditions.

Current rates are as follows:

Average Debit Balance	Interest to be Charged Above NFBLR
\$0 \$9,999	3.00%
\$10,000 — \$24,999	2.75%
\$25,000 — \$99,999	1.75%
\$100,000 — \$499,999	1.25%
\$500,000 and over	1.00%

In determining the daily debit balance and the resulting rate of interest we will combine the margin account balances in all accounts, except Type 3-Short Accounts and Type 9-Income Accounts. Interest is then computed for each account based on the rate resulting from averaging the daily debit balances during the interest period.

Your rate of interest will be changed without notice in accordance with changes in the NFBLR and in your average debit balance. When your interest rate is to be increased for any other reason, you will be given at least 30 days' written notice. If NFBLR is expressed as a range, NFS may apply the highest end of the range.

Your monthly statement will show the dollar amount of interest and the interest rate charged to your account. There will be no interest charge reflected on your statement if your monthly charge is less than \$1.00. An interest cycle will cover the period beginning with the first business day following the 20th of each month.

All securities or other property held by us in any of your accounts are collateral for any debit balances. A lien is created by those debits to secure the amount of money owed to us. This means securities or other assets in any of your accounts can be sold, withdrawn, transferred or converted to reduce or liquidate entirely any debit balances in your accounts, as authorized in your Margin Account Agreement.

If there is a decline in the market value of the securities or other assets which are collateral for your debits, it may be necessary for us to request additional margin. Ordinarily, a request for additional margin will be made when the equity in the

Notice to Customers

Financial Industry Regulatory Authority, Inc. rule 4311 requires that your Broker/Dealer and NFS allocate between them certain functions regarding the administration of your brokerage account. The following is a summary of the allocation services performed by your Broker/Dealer and NFS. A more complete description is available upon request.

Your Broker/Dealer is responsible for: (1) obtaining and verifying brokerage account information and documentation, (2) opening, approving and monitoring your brokerage account, (3) transmitting timely and accurate instructions to NFS with respect to your brokerage account, (4) determining the suitability of investment recommendations and advice, (5) operating and supervising your brokerage account and its own activities in compliance with applicable laws and regulations, including compliance with margin rules pertaining to your margin account, and (6) maintaining of required books and records for the services it performs.

NFS shall, at the direction of your Broker/Dealer: (1) execute, dear and settle transactions processed through NFS by your Broker/Dealer, (2) prepare and send transaction confirmations and periodic statements of your brokerage account (unless your Broker/Dealer has undertaken to do so). Certain pricing and other information may be provided by your Broker/Dealer or obtained from third parties, which has not been verified by NFS, (3) act as custodian for funds and securities received by NFS on your behalf, (4) follow the instructions of your Broker/Dealer with respect to transactions and the receipt and delivery of funds and securities for your brokerage account, and (5) extend margin credit for purchasing or carrying securities on margin. Your Broker/Dealer is responsible for ensuring that your brokerage account is in compliance with federal, industry and NFS margin rules, and for advising you of margin requirements. NFS shall maintain the required books and records for the services it performs.

I ACKNOWLEDGE THAT MY SECURITIES MAY BE LOANED TO YOU OR OTHERS AND THAT I HAVE READ AND RETAINED A COPY OF THE MARGIN DISCLOSURE STATEMENT AND MARGIN AGREEMENT. I understand that this account is governed by a pre-dispute arbitration agreement which appears on the last page of the Margin Account Agreement.

margin account (the market value of the securities in the account in excess of the debit balances) falls below our margin maintenance requirements, which may change from time to time without notice. We retain the right to require additional margin any time we deem it desirable. Margin calls can be met by delivery of cash or additional securities.

Other Charges. Separate charges at an annual rate of 3.0% above NFBLR may be made in the Type 1-Cash Account in connection with:

- a) Prepayments (by approval only) payments to a customer of the proceeds of a security sale before the regular settlement date.
- b) "When-Issued" transactions when the market price of the "when-issued" security deteriorates from the customer's contract price by an amount that exceeds the customer's cash deposit, interest may be charged on such excess.
- c) Late payments payments for securities purchased which are received past settlement date.

Interest Computation. Interest on debit balances is computed by multiplying the average daily debit balance of the account by the applicable interest rate in effect and dividing by 360, times the number of days a daily debit balance was maintained during the interest period. Interest charged during the interest period is the total of such daily computations. The daily debit balance of the account is the aggregate daily debit balance for all accounts other than your Type 3-Short and Type 9-Income Accounts.

Example: NFBLR of 8% — Applicable Interest Rate 11%

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Date	Daily Debit Balance
June 17	\$ 0
June 18	5,000
June 19	10,500
June 20	8,000
Total of 3 Days	\$23,500

\$23,500 divided by 3 equals 7,833 (daily average balance), times 11.0% (applicable interest rate), divided by 360 equals \$2.39 (the daily interest charge) times 3 (the number of days the account had a debit balance during the interest period) equals an interest charge of \$7.18.

Marking to Market. The credit balance in the Type 3-Short Account will be decreased or increased in accordance with the corresponding market values of all short positions. Corresponding debits or credits will be posted to the Type 2-Margin Account. These entries in the Type 2-Margin Account will, of course, affect the balance on which interest is computed. Credits in your Type 3-Short Account, other than Marking to Market, will not be utilized to offset your Type 2-Margin Account balance for interest computation.