NASDAQ Stock Market Rules

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Options Rules

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Chapter XV Options Pricing

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Sec. 2 NASDAQ Options Market—Fees and Rebates

The following charges shall apply to the use of the order execution and routing services of the NASDAQ Options Market for all securities.

(1) Fees for Execution of Contracts on the NASDAQ Options Market

<table>
<thead>
<tr>
<th>Fees and Rebates (per executed contract)</th>
<th>Customer</th>
<th>Professional</th>
<th>Firm</th>
<th>Non-NOM Market Maker</th>
<th>NOM Market Maker</th>
<th>Broker-Dealer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Penny Pilot Options:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rebate to Add Liquidity $0.50 ³, ⁴</td>
<td>$0.50 ³, ⁴</td>
<td>$0.50 ³, ⁴</td>
<td>$0.50</td>
<td>$0.50 ²</td>
<td>$0.50 ²</td>
<td>$0.50</td>
</tr>
<tr>
<td>Non-Penny Pilot Options:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fee for Adding Liquidity N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>$0.45</td>
<td>$0.45</td>
<td>$0.35</td>
<td>$0.45</td>
</tr>
<tr>
<td>Fee for Removing Liquidity</td>
<td>$0.85</td>
<td>$0.85</td>
<td>$1.10</td>
<td>$1.10</td>
<td>$1.10</td>
<td>$1.10</td>
</tr>
<tr>
<td>Rebate to Add Liquidity $0.80 ¹, ²</td>
<td>$0.80 ¹, ²</td>
<td>$0.80 ¹, ²</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
1 A Participant that qualifies for Customer or Professional Penny Pilot Options Rebate to Add Liquidity Tiers 2, 3, 4, 5 or 6 in a month will receive an additional $0.10 per contract Non-Penny Pilot Options Rebate to Add Liquidity for each transaction which adds liquidity in Non-Penny Pilot Options in that month. A Participant that qualifies for Customer or Professional Penny Pilot Options Rebate to Add Liquidity Tiers 7 or 8 in a month will receive an additional $0.20 per contract Non-Penny Pilot Options Rebate to Add Liquidity for each transaction which adds liquidity in Non-Penny Pilot Options in that month.

2 Participants that add 1.30% of Customer, Professional, Firm, Broker-Dealer or Non-NOM Market Maker liquidity in Penny Pilot Options and/or Non-Penny Pilot Options of total industry customer equity and ETF option ADV contracts per day in a month will be subject to the following pricing applicable to executions: a $0.48 per contract Penny Pilot Options Fee for Removing Liquidity when the Participant is (i) both the buyer and the seller or (ii) the Participant removes liquidity from another Participant under Common Ownership.

Participants that add 1.50% of Customer, Professional, Firm, Broker-Dealer or Non-NOM Market Maker liquidity in Penny Pilot Options and/or Non-Penny Pilot Options of total industry customer equity and ETF option ADV contracts per day in a month and meet or exceed the cap for the NASDAQ Stock Market Opening Cross during the month will be subject to the following pricing applicable to executions less than 10,000 contracts: a $0.32 per contract Penny Pilot Options Fee for Removing Liquidity when the Participant is (i) both the buyer and seller or (ii) the Participant removes liquidity from another Participant under Common Ownership.

Participants that add 1.75% of Customer, Professional, Firm, Broker-Dealer or Non-NOM Market Maker liquidity in Penny Pilot Options and/or Non-Penny Pilot Options of total industry customer equity and ETF option ADV contracts per day in a month will be subject to the following pricing applicable to executions less than 10,000 contracts: a $0.32 per contract Penny Pilot Options Fee for Removing Liquidity when the Participant is (i) both the buyer and seller or (ii) the Participant removes liquidity from another Participant under Common Ownership.

3 A Customer or Professional that removes liquidity in SPY Options will be assessed a fee of $0.48 per contract.

4 NOM Participants that qualify for any MARS Payment Tier in Section (6) will be assessed a Customer or Professional Penny Pilot Options Fee for Removing Liquidity of $0.48 per contract, excluding SPY.

*** The Customer and Professional Rebate to Add Liquidity in Penny Pilot Options will be paid as noted below. To determine the applicable percentage of total industry customer equity and ETF option average daily volume, unless otherwise stated, the Participant's Penny Pilot and Non-Penny Pilot Customer and/or Professional volume that adds liquidity will be included.
Tier 1  Participant adds Customer, Professional, Firm, Non-NOM Market Maker and/or Broker-Dealer liquidity in Penny Pilot Options and/or Non-Penny Pilot Options of up to 0.10% of total industry customer equity and ETF option average daily volume ("ADV") contracts per day in a month  $0.20

Tier 2  Participant adds Customer, Professional, Firm, Non-NOM Market Maker and/or Broker-Dealer liquidity in Penny Pilot Options and/or Non-Penny Pilot Options above 0.10% to 0.20% of total industry customer equity and ETF option ADV contracts per day in a month  $0.25

Tier 3  Participant adds Customer, Professional, Firm, Non-NOM Market Maker and/or Broker-Dealer liquidity in Penny Pilot Options and/or Non-Penny Pilot Options above 0.20% to 0.30% of total industry customer equity and ETF option ADV contracts per day in a month  $0.42

Tier 4  Participant adds Customer, Professional, Firm, Non-NOM Market Maker and/or Broker-Dealer liquidity in Penny Pilot Options and/or Non-Penny Pilot Options above 0.30% to 0.40% of total industry customer equity and ETF option ADV contracts per day in a month  $0.43

Tier 5  Participant adds Customer, Professional, Firm, Non-NOM Market Maker and/or Broker-Dealer liquidity in Penny Pilot Options and/or Non-Penny Pilot Options above 0.40% to 0.75% of total industry customer equity and ETF option ADV contracts per day in a month  $0.45

Tier 6  Participant has Total Volume of 100,000 or more contracts per day in a month, of which 25,000 or more contracts per day in a month must be Customer and/or Professional liquidity in Penny Pilot Options  $0.45

Tier 7  Participant has Total Volume of 150,000 or more contracts per day in a month, of which 50,000 or more contracts per day in a month must be Customer and/or Professional liquidity in Penny Pilot Options  $0.47

Tier 8  Participant adds Customer, Professional, Firm, Non-NOM Market Maker and/or Broker-Dealer liquidity in Penny Pilot Options and/or Non-Penny Pilot Options above 0.75% or more of total industry customer equity and ETF option ADV contracts per day in a month, or Participant adds: (1) Customer and/or Professional liquidity in Penny Pilot Options and/or Non-Penny Pilot Options of 0.25% or more of total industry customer equity and ETF option ADV contracts per day in a month, and (2) has added liquidity in all securities through one or more of its Nasdaq Market Center MPIDs that represent 1.00% or more of Consolidated Volume in a month  $0.48
or qualifies for MARS (defined below)

a Reserved.

b For purposes of Tiers 6 and 7, "Total Volume" shall be defined as Customer, Professional, Firm, Broker-Dealer, Non-NOM Market Maker and NOM Market Maker volume in Penny Pilot Options and/or Non-Penny Pilot Options which either adds or removes liquidity on NOM.

c Participants that: (1) add Customer, Professional, Firm, Non-NOM Market Maker and/or Broker-Dealer liquidity in Penny Pilot Options and/or Non-Penny Pilot Options of 1.15% or more of total industry customer equity and ETF option ADV contracts per day in a month will receive an additional $0.02 per contract Penny Pilot Options Customer and/or Professional Rebate to Add Liquidity for each transaction which adds liquidity in Penny Pilot Options in that month; or (2) add Customer, Professional, Firm, Non-NOM Market Maker and/or Broker-Dealer liquidity in Penny Pilot Options and/or Non-Penny Pilot Options of 1.30% or more of total industry customer equity and ETF option ADV contracts per day in a month will receive an additional $0.05 per contract Penny Pilot Options Customer and/or Professional Rebate to Add Liquidity for each transaction which adds liquidity in Penny Pilot Options in that month; or (3) (a) add Customer, Professional, Firm, Non-NOM Market Maker and/or Broker-Dealer liquidity in Penny Pilot Options and/or Non-Penny Pilot Options above 0.80% of total industry customer equity and ETF option ADV contracts per day in a month, (b) add Customer, Professional, Firm, Non-NOM Market Maker and/or Broker-Dealer liquidity in Non-Penny Pilot Options above 0.15% of total industry customer equity and ETF option ADV contracts per day in a month, and (c) execute greater than 0.04% of Consolidated Volume ("CV") via Market-on-Close/Limit-on-Close ("MOC/LOC") volume within the NASDAQ Stock Market Closing Cross within a month will receive an additional $0.05 per contract Penny Pilot Options Customer and/or Professional Rebate to Add Liquidity for each transaction which adds liquidity in Penny Pilot Options in a month. Consolidated Volume shall mean the total consolidated volume reported to all consolidated transaction reporting plans by all exchanges and trade reporting facilities during a month in equity securities, excluding executed orders with a size of less than one round lot. For purposes of calculating Consolidated Volume and the extent of an equity member's trading activity, expressed as a percentage of or ratio to Consolidated Volume, the date of the annual reconstitution of the Russell Investments Indexes shall be excluded from both total Consolidated Volume and the member's trading activity.

d NOM Participants that qualify for any MARS Payment Tier in Section (6) will receive an additional $0.03 per contract Penny Pilot Options Customer and/or Professional Rebate to Add Liquidity for each transaction which adds liquidity in Penny Pilot Options in that month, in addition to qualifying Penny Pilot Options Customer and/or Professional Rebate to Add Liquidity Tiers 1-8. NOM Participants that qualify for a note "c" incentive will receive the greater of the note
"c" or note "d" incentive.

NOM Participants that transact in all securities through one or more of its Nasdaq Market Center MPIDs that represent 3.00% or more of Consolidated Volume in the same month on the NASDAQ Stock Market will receive a $0.53 per contract rebate to add liquidity in Penny Pilot Options as Customer or Professional and $1.00 per contract rebate to add liquidity in Non-Penny Pilot Options as Customer or Professional. Participants that qualify for this rebate would not be eligible for any other rebates in Tiers 1-8 or other rebate incentives on NOM for Customer and Professional order flow in Chapter XV, Section 2(1).

# The NOM Market Maker Rebate to Add Liquidity in Penny Pilot Options will be paid as noted below.

<table>
<thead>
<tr>
<th>Monthly Volume</th>
<th>Rebate to Add Liquidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier 1</td>
<td>Participant adds NOM Market Maker liquidity in Penny Pilot Options and/or Non-Penny Pilot Options of up to 0.10% of total industry customer equity and ETF option average daily volume (&quot;ADV&quot;) contracts per day in a month</td>
</tr>
<tr>
<td>Tier 2</td>
<td>Participant adds NOM Market Maker liquidity in Penny Pilot Options and/or Non-Penny Pilot Options above 0.10% to 0.25% of total industry customer equity and ETF option ADV contracts per day in a month</td>
</tr>
<tr>
<td>Tier 3</td>
<td>Participant adds NOM Market Maker liquidity in Penny Pilot Options and/or Non-Penny Pilot Options above 0.25% to 0.60% of total industry customer equity and ETF option ADV contracts per day in a month</td>
</tr>
<tr>
<td>Tier 4</td>
<td>Participant adds NOM Market Maker liquidity in Penny Pilot Options and/or Non-Penny Pilot Options of above 0.60% to 0.90% of total industry customer equity and ETF option ADV contracts per day in a month</td>
</tr>
<tr>
<td>Tier 5</td>
<td>Participant adds NOM Market Maker liquidity in</td>
</tr>
</tbody>
</table>
Penny Pilot Options and/or Non-Penny Pilot Options of above 0.30% of total industry customer equity and ETF option ADV contracts per day in a month and qualifies for the Tier 7 or Tier 8 Customer and/or Professional Rebate to Add Liquidity in Penny Pilot Options

**Tier 6**

Participant adds NOM Market Maker liquidity in Penny Pilot Options and/or Non-Penny Pilot Options above 0.80% of total industry customer equity and ETF option ADV contracts per day in a month and qualifies for the Tier 7 or Tier 8 Customer and/or Professional Rebate to Add Liquidity in Penny Pilot Options or Participant adds NOM Market Maker liquidity in Penny Pilot Options and/or Non-Penny Pilot Options above 0.90% of total industry customer equity and ETF option ADV contracts per day in a month

(2) – (6) No change.

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